Specialization course

Generative AI

Mastering AI Agents

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Generative AI Course (Weekdays)

- Starting from **17th July**
  (8:30pm to 10:30pm) (Mon to Fri) IST

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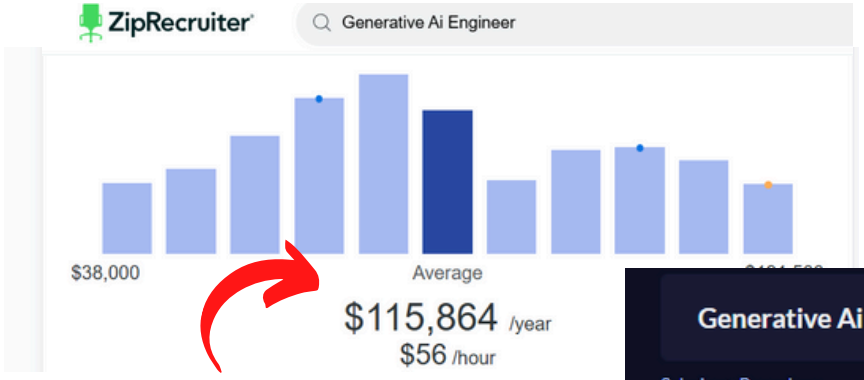
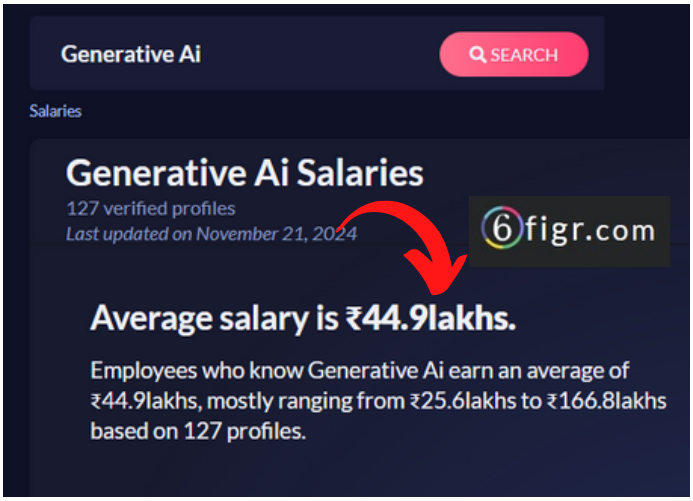
SPECIALIZATION COURSE

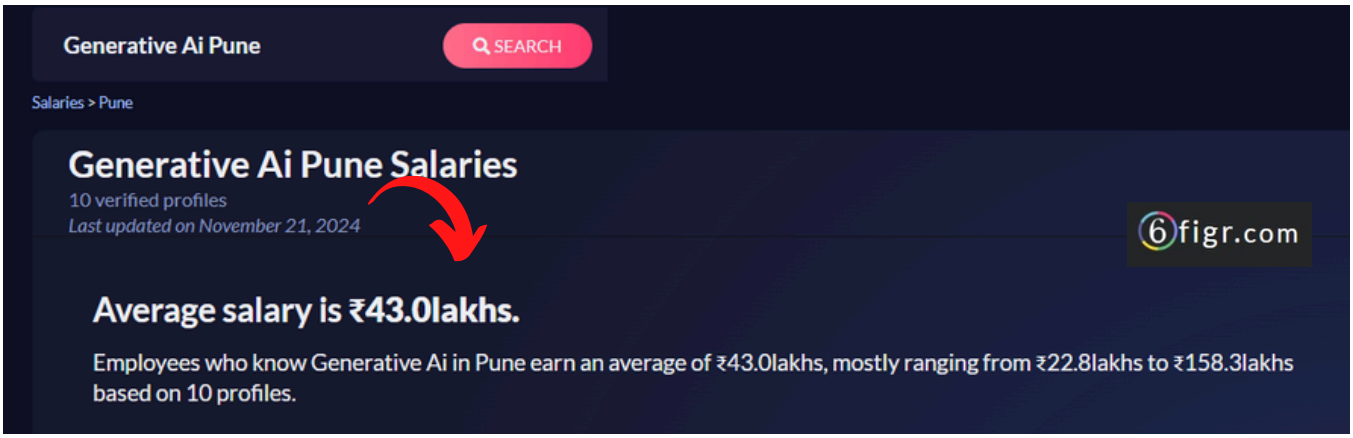
Generative AI

Hottest Job of 21st Century

Machine learning and artificial intelligence is a field that drives major innovations across different industries. It is predicted that in 2023, the AI market will reach $500 billion, and in **2030, $1,597.1 billion** in size. This means that machine learning technologies will continue to be in high demand in the near future.







About us

5000+Trained

100+ Workshops & courses

100+ Countries' Learners

Who is Psitron Technologies ? Why should you care?

About Psitron Technologies:

Psitron Technologies is an IoT and AI company. Our mission at Psitron is to connect the world with innovative technologies. Psitron has responsibility for developing innovative innovations for addressing current problems in industries, especially focusing on industry 4.0 solutions.

Supported By

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

PSG STEP

NIDHI BY DST
Entrepreneur-in-Residence
Powered by Venture Center

Awards/ Honour

F.K.C.C.I BANGALORE
Estd. 1916

FKCCI Bangalore best Startup award 2018

LIVING TALENT

Living Talent, Dubai finalist of international level innovation competition 2018

HILTI

HILTI International innovation competition finalist.

aws activate

Psitron is supported by AWS activate program

unlimit
POWERED BY RELIANCE

IoT interThrone winner

About Program

The Generative AI Mastery Program equips professionals with cutting-edge skills in Generative AI, LLMs, and cloud AI solutions. With the global Generative AI market surging from **$43.87B in 2023 to $967.65B by 2032 (CAGR 39.6%),** demand for AI-driven automation is soaring. North America led with 49.78% market share in 2023, and the **U.S. is projected to hit $220.27B by 2032**, fueled by cloud adoption, automation, and VC investments.

Gain hands-on expertise in text, image, and speech generation, covering prompt engineering, model fine-tuning, RAG, and AI agents. Work with Amazon Bedrock, Azure AI Foundry, Google AI Studio, and Hugging Face, leveraging top models like GPT, Claude, Gemini, Llama, and Stable Diffusion. Explore LLMOps, AI ethics, and dev tools like GitHub Copilot & Amazon Q.

Designed for AI enthusiasts, data scientists, and developers, this program ensures you stay ahead in the AI revolution.

Key Highlights

- **90 Hours** of Live sessions from Industrial Experts
- **50+ Live** Hands-on Labs
- **20+ Real-time** industrial projects
- One-on-One Debugging with Industry Mentors

Program Pedagogy

Instructor led Training
Get trained by top industry experts

Community support
Speak to community anytime and clarify your queries instantly.

Projects and Exercises
Get real-world experience through Projects

Live Hands-on
Hands-on exercises, project work, quizzes, and capstone projects

Peer Networking and Group Learning
Improve your professional network and learn from peers through our innovative Peer WhatsApp & community groups.

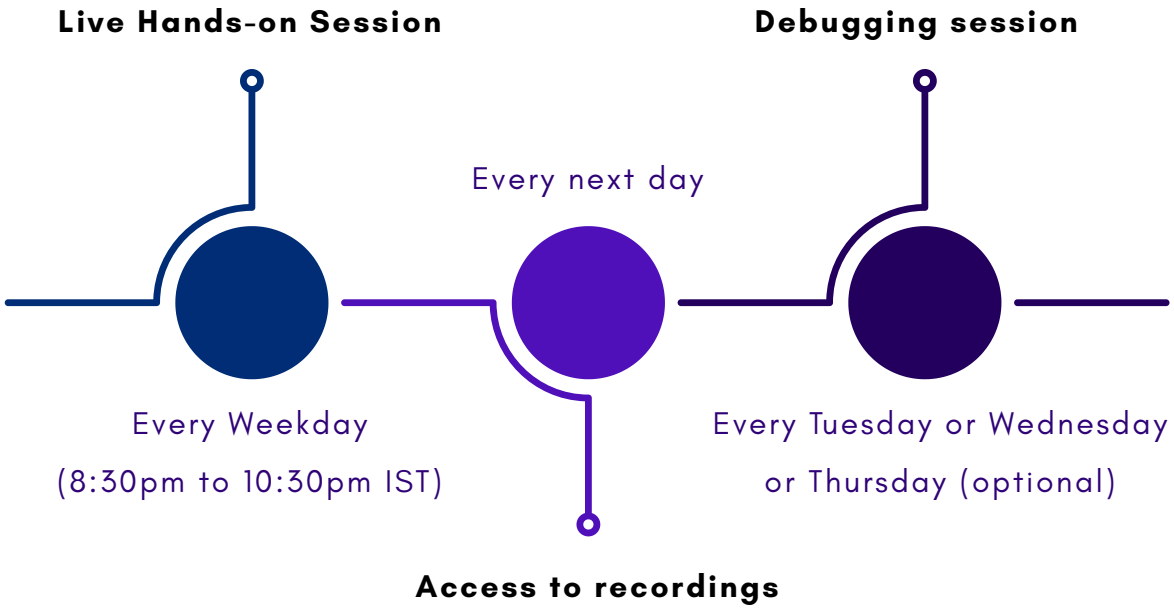
Who Can Apply for the Course?

- **AI & ML Engineers** looking to build and deploy generative AI models
- **Data Scientists & Researchers** exploring LLMs, RAG, and AI-driven automation
- **Software Engineers & Developers** eager to integrate AI into applications
- **Cloud & DevOps Engineers** working with AI-powered cloud services (AWS, Azure, GCP)
- **Applied Scientists & AI Enthusiasts** passionate about cutting-edge generative AI
- **Tech Professionals** wanting hands-on experience with GPT, Claude, LLaMA, and Stable Diffusion
- **Startup Founders & Entrepreneurs** aiming to leverage AI for innovation
- **Product Managers & Business Leaders** seeking AI-driven strategies
- **Anyone** interested in mastering LLMOps, AI tools, and the future of digital creativity

Generative AI Course (Weekdays)

- Starting from **17th July**

  (8:30pm to 10:30pm) (Mon to Fri) IST
- Debugging session on Weekend/Weekdays



Module 1

Introduction to Generative AI

- Introduction to Generative AI
- Applications and impact of Generative AI
- Evolution and Architecture of Generative AI
- How does LLM work?
- Different types of Generative AI
  - Text generation
  - Image generation
  - Audio and speech recognition
  - Multi-modality
- Foundation Models vs LLMs
- Embedding vs Image generation vs Text and Code generation
- How to improve LLM results?
  - Prompt Engineering with Context
  - Retrieval Augmented Generation (RAG)
  - Fine-tuned model
  - Trained model
- How does it relate to RAG, GraphRAG, KAG, and CAG
- Vector databases for Generative AI
- Introduction to LangChain
- Choose the best foundation model for your needs
- Explainability and Interpretability

Module 2

Prompt Engineering

- Introduction to Prompt Engineering?
- How Tokenization work ?
- Necessity of Prompt Engineering
- Basic Prompt Structure
- Clear and direct instructions
- Assigning Roles (Role Prompting)
- Splitting Data from Instructions
- Formatting Output using prompt
- Step by step using Precognition
- Using Examples in prompt
- How to Avoid Hallucinations

- **Project:** Building Complex Prompts (Industry Use Cases)

Module 3

Deep Dive into Generative AI on Cloud (AWS, Azure & GCP)

- Choose from leading Foundation models
  - AI21: Jamba, Jurassic
  - Amazon: Titan Models
  - Anthropic: Claude Models
  - Cohere: Command Models
  - Meta: Llama
  - Mistral AI
  - Stability AI Models
  - Open AI Models
  - DeepSeek
  - Google Gemini models
  - Hugging Face models.
- Model Hyperparameter Configurations
- **AWS for Generative AI**
  - Getting started with Amazon Bedrock
    - Experiment with Foundation models for different tasks
    - Chat/text playground
    - Image playground
  - Privately customize FMs with your data
  - Amazon Bedrock Converse API
  - Amazon Q – Generative AI Assistant
    - Amazon Q Business
    - Amazon Q Developer
  - Amazon SageMaker for Generative AI
    - SageMaker JumpStart pre-trained models
- **Google AI Studio and Gemini API**
  - Google AI Studio Introduction
  - Gemini API Overview
  - Google AI Studio playground
    - AI Playground Chat Audio Docs & Images
    - Real-Time Streaming Audio & Video

- Vertex AI Studio
  - Vertex AI Studio Getting Started
  - Real-time Media Studio & Streaming
  - Prompt Management Gallery & Optimization
  - Model Tuning & Customization
- Agent Builder
  - Agent Garden
  - Agent Engine
  - RAG Engine
  - Vertex AI Search
  - Vector Search
- Vertex AI Model Garden Foundation Models

- **Azure for Generative AI: Azure AI Foundry**
  - Getting started with Azure AI Foundry
  - Understanding RBAC Roles in Azure AI Foundry
  - Understanding Azure AI Foundry resources
    - AI project
    - AI hub
    - AI Services
    - Azure OpenAI Service
  - Azure AI Model Catalog Discover and Deploy AI Models
  - AI Playground Experiment, Customize & Build
  - Azure AI Agent Secure & Scalable Enterprise Automation
  - Fine-Tune AI Models with Your Data
  - Prompt Flow Build & Refine AI Workflows
  - Tracing & Evaluation Debug and Optimize AI Performance
  - AI Safety & Security Build with Confidence

Module 4

Text Generation on AWS Azure & GCP

- **Amazon Bedrock Text Generation**
  - **Project: Text Generation**
    - Leverage Amazon Bedrock to generate high-quality and contextually relevant text.
  - **Project: Bedrock model for code generation**
    - Using Claude models for code generation

- **Project: Text Summarization**
  - Utilize Titan and Claude models to distill complex information into concise summaries.
- **Project: Question Answering (QnA)**
  - Build intelligent QnA systems with the capabilities of the Titan model.
- **Project: Entity Extraction**
  - Master advanced techniques for extracting critical entities from text.

- **Azure AI Foundry text generation**
  - Azure Authentication & Environment Setup
  - Understanding AIProjectClient
  - Azure AI Foundry Quick Start Guide
  - **Project:** Chat Completions with AIProjectClient
  - **Project:** Getting started with Text Embeddings models
  - AI Foundry Prompt Template
  - Phi-4 Model with AIProjectClient
  - **Project:** Building Advanced Chat Systems with Phi-4
  - Azure OpenAI Studio
    - **Project:** Azure OpenAI Chat on Private Data with LangChain
    - **Project:** Azure OpenAI Q&A with Semantic Search Using LlamaIndex
- **Google AI Studio text generation**
  - Text Generation from Text-Only Inputs
  - Generate Content from Combined Text & Images
  - Real-Time Text Streaming
  - **Project:** AI-Powered Real-Time Food Recommendation System
  - Handling Long Contexts with Gemini
  - Executing Code with Gemini Basics
  - Producing Structured Responses with the Gemini API
  - Gemini 2.0 Rapid Reasoning & Multi-Turn Dialogues
  - Live Multimodal API Implementation
  - Function Calling with the Gemini API
  - Audio capabilities with the Gemini API

Module 5

Retrieval-Augmented Generation with AWS, Azure and GCP

- **Project:** Amazon Bedrock Knowledge Bases and RAG
  - Managed RAG
    - Retrieve and generate using managed RAG services.

    - LangChain RAG
        - Implement RAG workflows using LangChain for retrieval and generation.
- **Project:** Azure AI Foundry RAG
    - Azure AI Search for RAG-Powered Applications
    - Embeddings Model for RAG-Based Architecture
    - Embedding, Storing & Chatting with Docs in Azure AI Search
    - Bing Grounding: Enhance AI with Web Search Context
- **Project:** Vertex AI & Google AI Studio for RAG Solutions
    - RAG architecture using Vertex AI
    - Google Search Grounding: Enrich AI with Real-Time Context
    - Enhance AI with Google Search Suggestions
    - Vertex AI RAG Engine

Module 6

Image Generation and Multimodal Models

- Bedrock Titan Image Generator
    - Generate high-quality images using Bedrock Titan.
- **Project:** Bedrock Amazon Nova
    - Create detailed videos with the power of Amazon Nova Foundation Models
- **Project:** Bedrock Titan Multimodal Embeddings
    - Leverage Titan Multimodal embeddings for advanced multimodal AI tasks.
- Google AI Studio
    - Imagen 3 in Gemini API
    - Imagen Model Parameters Overview
    - Handling Image & Base64 Inputs with Gemini
    - Video & Text Prompting: Transcription & Visual Descriptions
    - Google's Veo 2 and Veo 3
    - **Project:** Getting started with Google's Veo 2
- Azure AI Foundry
    - Azure AI Foundry Image Generation Capabilities
    - Embed Images with Azure AI Foundry
    - **Project:** Getting Started with OpenAI DALL·E 3 for Image Generation

Module 7

Customizing Models via Fine-Tuning

- Model Customization Techniques in Amazon Bedrock
    - Fine-tuning options in Amazon Bedrock

  - Data preparation
  - Customizing hyperparameters
  - Fine-Tuning & Retrieve Custom Model
  - Invoke Custom Model
- **Project:** Fine-Tuning with the Gemini API
  - Fine-Tuning Process in Google AI Studio
  - Advanced Tuning Settings with the Gemini API
- Fine-tune models with Azure AI Foundry
- LoRA (Low-Rank Adaptation) and QLoRA for parameter-efficient tuning
- PEFT (Parameter-Efficient Fine-Tuning) techniques

Module 8

AI Agents

- Introduction AI Agents
- The Importance of AI Agents
- Applications and Use Cases of AI Agents
- Understanding the workflow of AI agents
- What are AI agents made of?
- **Project: Agents for Amazon Bedrock (AWS)**
  - Components of Bedrock Agents
    - Foundation model
    - Instructions
    - Action groups
    - Knowledge bases for AI Agents
    - Guardrails for Amazon Bedrock
  - Getting started with Amazon Bedrock Agents
- **Building AI Agents using Gemini API (GCP)**
  - **Project:** Building AI Workflows with LangChain
    - Creating an automated essay-writing pipeline
    - Integrating LLMs, prompts, and web search
    - Using LLMChain, ChatPromptTemplate, and StrOutputParser
    - Implementing LangChain Expression Language (LCEL) for task automation
    - Implementing structured data validation with **Pydantic**
    - Using LLMChain, ChatPromptTemplate, and StrOutputParser
    - Handling real-time information retrieval using **Tavily API**
  - Iterative AI Agent with LangGraph
  - **Project:** Deploying and Scaling AI Agents

        - Debugging AI agent issues in **LangGraph** and **LangChain**
        - Deploying AI Agents on Vertex AI engine
- **Project: Azure AI Agents**
    - Building AI Agents with Azure
        - Understanding AIProjectClient for managing AI workflows
    - Managing AI Conversations
    - Enhancing AI Agents with Tools
        - Code Interpreter Tool: Performing calculations and analyzing datasets
        - File Search Tool: Searching documents and extracting insights
        - Bing Grounding Tool: Fetching real-time search results
        - Azure AI Search Tool: Connecting AI Agents to a structured search index
    - Using AI for Data Search and Retrieval
        - Setting up Azure AI Search for indexing documents
        - Creating and managing Vector Stores for AI-driven search
    - AI Search Integration for Real-time Information
    - Deploying AI Agents in Production
    - Advanced AI Agent Customization
- **Project: Google Agent Development Kit**
    - Core Agent Categories
        - LLM Agents
        - Workflow Agents
        - Custom Agents
        - Multi-Agent Systems in ADK
    - ADK Tool
        - Function Tools
        - Built-in Tools
        - Third-Party Tools
    - Integrating Model Context Protocol (MCP) with ADK
    - Deploying Your Agent
- **Project: Agent2Agent (A2A)**
    - Benefits of Using A2A
    - Key Design Principles of A2A
    - The A2A Solution
    - A2A and MCP
    - How A2A and MCP Work Together
    - Agent Discovery in A2A

- **Project: Model Context Protocol (MCP)**
  - The Architecture of MCP
    - MCP Servers
    - MCP Clients
    - MCP Hosts
    - Local Data Sources
    - Remote Services
  - MCP Ecosystem and Adoption
- **Project: Introduction to Multi-Agent Systems**
  - What are Multi-AI Agents?
  - Real-world Applications of Multi-Agent Systems
  - Overview of LangGraph for Multi-Agent Orchestration
  - Benefits of Multi-Agent Architecture
- Other Agent framework AutoGen, CrewAI and Semantic kernel

Module 9

Monitoring & Performance Evaluation

- **Project:** Observability in Azure AI foundry
- **Project:** Cloud-Based Model Evaluation using AIProjectClient
- Observability & Tracing in Azure AI
- Azure Monitor & Application Insights
- Best Practices for AI Model Monitoring
- **Project:** LLM Evaluation & Testing with Evidently AI
  - Evaluate and test your LLM use case
  - Create and evaluate an LLM judge
  - Run regression testing for LLM outputs.
- **Project:** MLflow for LLM Evaluation
  - Model Evaluation in MLflow
  - Heuristic-Based Evaluation Metrics
  - LLM-as-a-Judge Evaluation Metrics
  - Custom LLM Evaluation Metrics
- AWS Bedrock for LLM and RAG Evaluation
- BLEU, ROUGE, METEOR, and BERTScore for assessing text quality
- Evaluate AI Agents
  - Preparing for Agent Evaluations
  - How Evaluation works with the ADK

- Retrieval-augmented Generation (RAG) evaluation
  - Evaluating Retrieval Systems on cloud
  - RAG Evaluation with MLflow

Module 10

Ethics & Deployment in Generative AI

- **Responsible AI**
  - What is responsible AI
  - Challenges of responsible AI
  - Amazon services and tools for responsible AI
  - Building AI responsibly at AWS
  - Core dimensions of responsible AI
  - **Project:** Implementing safeguards in generative AI
    - Amazon Bedrock Guardrails
  - Azure Responsible AI capabilities
  - Google Cloud's approach to responsible AI
- **MLOps for LLM's (LLMOps)**
  - What is LLM?
  - MLOps for LLM's
  - FMOps/LLMOps: Operationalize generative AI
  - LLM System Design
  - High-level view LLM-driven application
  - LLMOps Pipeline
- **Enterprise-Ready Features for A2A Agents**
  - Transport Level Security (TLS)
  - Authentication
  - Authorization
  - Data Privacy and Confidentiality
  - Tracing, Observability, and Monitoring
  - API Management and Governance

Module 11 (Self-paced)

Developer-Focused AI Tools

- **Project:** Amazon Q for Developer
  - Setting Up Amazon Q Developer
  - Conversing with Amazon Q for Code Assistance
  - Inline Code Suggestions with Amazon Q
  - Code Transformation in the IDE Using Amazon Q
  - Feature Development with Amazon Q
  - Automated Unit Test Generation with Amazon Q
  - Code Review with Amazon Q Developer
  - Auto-Generated Documentation with Amazon Q
  - Supported Languages for Amazon Q in IDE
- **Project:** GitHub Copilot
  - Best Practices for GitHub Copilot
  - Automating Tests & Repetitive Code with Copilot
  - Debugging & Fixing Syntax Errors Using Copilot
  - Generating Code Explanations & Comments with Copilot
  - AI-Powered Code Completions with GitHub Copilot
  - Enhancing Code Reviews with GitHub Copilot
  - Streamlining Pull Requests with Copilot Assistance
- Other developer focused AI tools
  - **Project:** Cursor
  - Windsurf
  - Replit

Program Projects

Career Coach Chatbot

This project aims to develop an AI-powered career advice chatbot that offers professional and friendly guidance. It uses predefined prompts, example-based learning, and conversational history to ensure clear and relevant responses. Designed for seamless API integration, the chatbot supports multi-turn conversations, making it ideal for web applications and interactive career counselling.

Model Context Protocol (MCP) Implementation with Vertex AI on Google Cloud

Model Context Protocol (MCP) with Vertex AI on Google Cloud to enhance AI agent communication. It covers defining model contexts, exchanging metadata, and standardizing agent interactions for reliable, consistent, and interoperable multi-agent AI systems.

Multi-agent for City Insights using LangGraph and Mistral

Building a multi-agent city information system using LangGraph and Mistral models. It integrates weather, events, and recommendations via APIs and local databases, showcasing modular, scalable, and flexible agent orchestration for delivering personalized, dynamic city insights and suggestions.

Amazon Bedrock for Question and answers

This project showcases the use of a generative AI model to answer questions by incorporating context within a prompt. It ensures precise, context-driven responses by extracting information from short documents. The focus is on generating concise, relevant answers while highlighting the importance of context for accuracy in AI-generated responses.

Amazon Bedrock for Entity Extraction

This project leverages LLMs for entity extraction from emails, identifying details like customer questions, names, and book titles. It returns structured data in XML tags without requiring predefined classes or labeled data. The approach enhances flexibility and accuracy, making it suitable for various use cases in automated text analysis.

Health and fitness chat completions

This project showcases the use of the Azure AI Foundry SDK to build a fitness assistant that generates personalized chat responses. It provides friendly, context-aware advice based on user inputs, leveraging dynamic templates to tailor recommendations to individual details like name and fitness goals, enhancing user engagement and guidance.

Health & Fitness AI: Text and Image Embeddings

This project explores using Azure AI Foundry for embedding text and images in the health and fitness domain. It embeds workout tips and wellness phrases while generating image embeddings for health-related visuals. A prompt template enhances context, improving semantic understanding for advanced fitness guidance and personalized recommendations.

Program Projects

Cost-Effective Fitness Guidance with Phi-4 Model and Azure AI

This project utilizes Phi-4, a cost-effective model, to provide personalized fitness guidance, including workout schedules and recovery tips. By leveraging Phi-4's reasoning capabilities, it delivers valuable insights while minimizing costs compared to GPT-4. Optional features enhance responses with external context for more tailored health and fitness advice.

Building a Q&A Chatbot with LangChain, OpenAI, and FAISS

Building a Q&A chatbot using LangChain, OpenAI embeddings, and FAISS vector store. It loads a PDF, splits text, creates document embeddings, stores vectors in FAISS, and enables natural language querying with relevant document retrieval and response generation.

Q&A Application with Knowledge Base Using Amazon Bedrock

This use case builds a Q&A application using the RetrieveAndGenerate API for Amazon Bedrock. It retrieves data from Amazon's Shareholders Letters and uses LLMs like Anthropic Claude to generate accurate, context-specific responses, enabling fast, context-aware interactions without retraining models.

Building a Health-Focused RAG Pipeline with Azure AI

This project builds a simple Retrieval-Augmented Generation (RAG) pipeline for health and fitness advice. It embeds health tips, stores them in Azure AI Search, and retrieves relevant content using vector search to generate accurate, data-driven responses with a language model, ensuring reliable health guidance.

Building a RAG System on Google Cloud with Vertex AI

Building a RAG (Retrieval-Augmented Generation) system on Google Cloud using Vertex AI, integrating document loading, text splitting, embedding generation, and vector storage. It enables querying documents with LLMs to provide context-aware responses efficiently.

Video Ad Generation for Product Promotion Using Amazon Nova Reel

This project uses Amazon Nova Reel to generate short video ads for a dog food company. It explores text-to-video and image-to-video features, leveraging AWS services for video creation, job tracking, and storage, enabling dynamic and engaging product advertisements.

Multimodal Image Search and Recommendation

This project uses Amazon Titan Multimodal Embedding Models for image search and recommendations. It generates embeddings for product images and descriptions, enabling multimodal searches with text queries. Heatmaps visualize product similarity, enhancing discovery for e-commerce by allowing users to find relevant items using natural language.

Fine-Tuning Models for Task-Specific Applications

This use case focuses on fine-tuning pre-trained models with custom datasets to enhance performance for specific tasks. Using Python and Gemini API, it involves dataset preparation, task configuration, and optimization, enabling models to adapt for specialized applications with improved accuracy and relevance.

Agent2Agent (A2A) Enhancing AI Agent Collaboration

Agent2Agent (A2A) enables seamless communication between AI agents using clear design principles. It simplifies agent discovery, coordination, and collaboration. Integrated with MCP, A2A ensures efficient multi-agent operations, enhancing scalability and adaptability across various intelligent systems and environments.

Program Projects

AI-Agent for Enhanced Guest Experience in Hotels and Hospitality

This use case leverages Bedrock AI Agent to automate hospitality workflows, enhancing guest experience, booking automation, and personalized services. Using AWS services like Lambda and Python, it optimizes operations, improves decision-making, and integrates AI-driven insights into hotel management systems for efficiency and scalability.

AI Agent Search Service: Health care app

This project integrates Azure AI Search with an AI Agent for a health and fitness experience. It provides fitness advice, recommends equipment, and ensures relevant responses while including a disclaimer that it does not replace professional medical guidance.

Engineering Essay Generation with AI Agents: A LangChain and Gemini API Workflow

Building AI agents using LangChain and LangGraph with Gemini API for automating essay generation. It showcases modular agent workflows, memory integration, and tool use, focusing on simplifying complex engineering concepts into structured, informative essays.

Evaluating and Customizing LLMs as Judges for Text Quality Analysis

This use case evaluates LLMs using Evidently AI, supporting dataset creation, output scoring, and testing locally or via Evidently Cloud. It integrates LLMEval, custom evaluation logic, and models like OpenAI and Anthropic, providing visualized reports for continuous performance analysis and improvement.

Evaluating LLMs with MLflow

This use case involves using MLflow to evaluate large language models (LLMs) through metrics like ROUGE and BLEU. It includes configuring models, defining evaluation data, and assessing outputs for tasks like question answering and summarization. Tools include MLflow's evaluation API and integration with OpenAI for more context-aware evaluations.

Enhancing Developer Productivity with Amazon Q

This project integrates Amazon Q for code assistance, enabling features like inline code suggestions, automated unit test generation, and code transformation within IDEs. It also supports feature development, code reviews, and auto-generated documentation, working with multiple languages to enhance developer efficiency.

Boosting Development Efficiency with GitHub Copilot

This project explores leveraging GitHub Copilot to automate repetitive tasks, debug code, generate explanations, and assist with creating regular expressions. It also enhances code reviews, streamlines pull requests, and provides AI-powered code completions to speed up development. By following best practices, developers can improve productivity and collaboration while reducing errors.

AI-Powered Food Recommendation App with Real-Time Weather and User Preferences

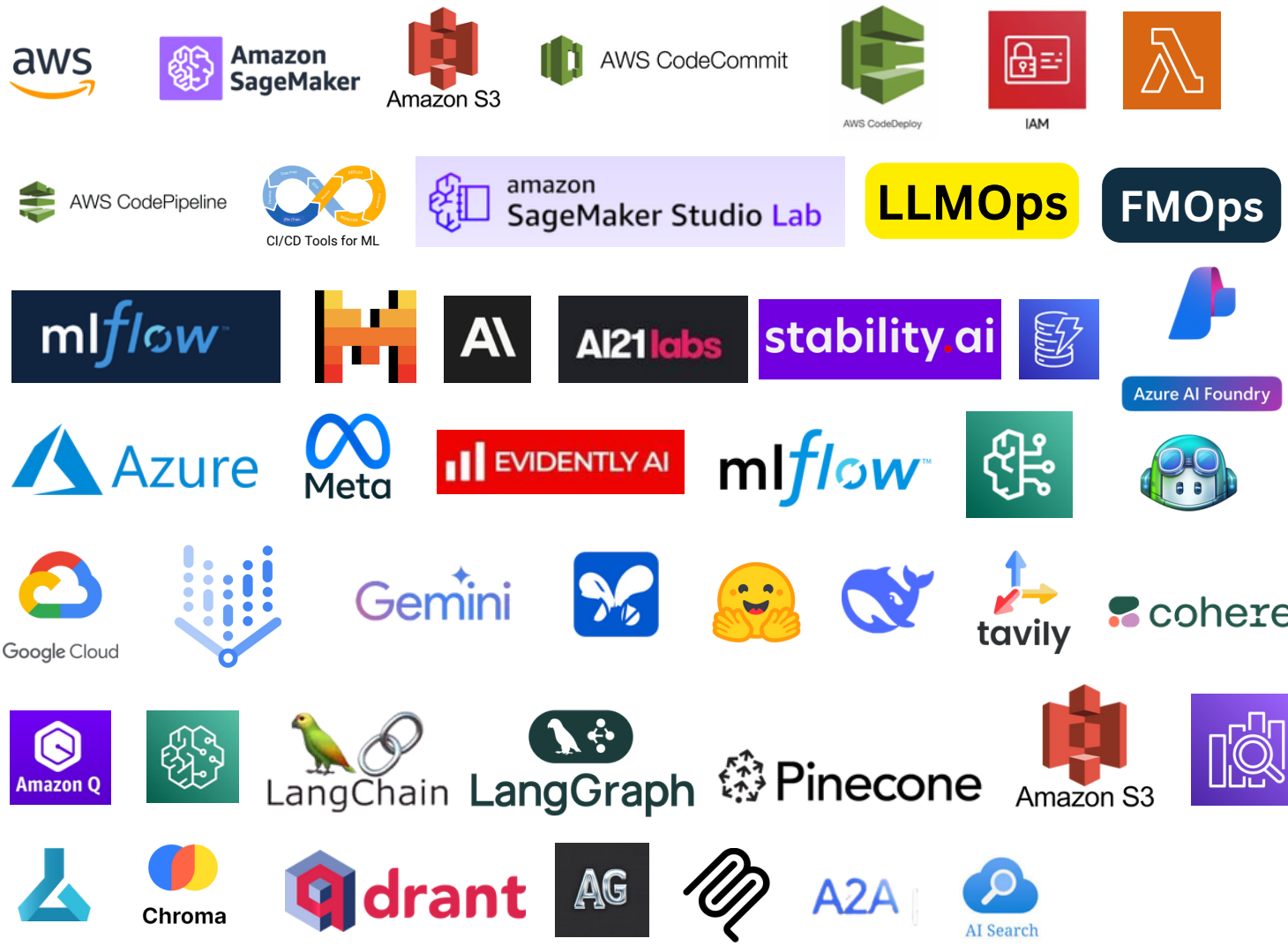
AI Agent based food recommends app based on real-time weather conditions and user preferences using Google Gemini AI. It features an interactive chat interface, favorite food management, and food ordering options. Weather data is sourced via OpenWeather API, offering personalized, AI-driven meal suggestions to enhance the user dining experience

Evaluating Language Models on Azure AI Foundry

Evaluating a language model deployed on Azure AI Studio using prompt flow and evaluation datasets. It covers uploading data, defining evaluation metrics, running evaluations, and analyzing results to assess the model's performance on various prompts and tasks.

Program Features

Tools to Master



Skills to Master

- LangChain
- LlamaIndex
- Hugging Face Models
- AWS
- Amazon Bedrock
- SageMaker
- Amazon Q
- Gemini API
- Vertex AI
- AI Agents
- Google AI Studio
- Azure AI Foundry
- OpenAI
- LLaMA
- DALL·E 3
- AI21
- Claude
- Stability AI
- Mistral AI
- AutoGen
- Amazon Bedrock Knowledge Bases
- Google Search Grounding
- MLFlow
- Evidently AI
- GitHub Copilot
- Azure AI Search
- RAG
- MCP
- A2A

Program Fee

~~₹ 40,999/-~~

₹ 37,999/-

Basic

- ✓ Live training
- ✓ Access to Recordings
- ✓ Debugging sessions
- ✓ FREE Resources
  - eBooks
  - Webinars
  - Job Update
  - Interview questions
- ✓ Community Support
- ✓ -
- ✓ -
- ✓ -
- ✓ -

~~₹ 45,999/-~~

₹ 40,999/-

Advanced

MOST POPULAR

- ✓ Live training
- ✓ Access to Recordings
- ✓ Debugging sessions
- ✓ FREE Resources
  - eBooks
  - Webinars
  - Job Update
  - Interview questions
- ✓ Community Support
- ✓ Resume preparation
- ✓ **6 Month** Job Support
- ✓ Bonus reattendance opportunity

One sign-up, two chances - Join this batch & the next only

- ✓ -

~~₹ 55,999/-~~

₹ 45,999/-

Advanced+

- ✓ Live training
- ✓ Access to Recordings
- ✓ Debugging sessions
- ✓ FREE Resources
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  - Webinars
  - Job Update
  - Interview questions
- ✓ Community Support
- ✓ Resume preparation
- ✓ **1 Year** Job Support
- ✓ Bonus reattendance opportunity

One sign-up, two chances - Join this batch & the next only

- ✓ Instant access

Access to previous batch Gen AI Specialization course

Program Fee

~~$549~~

$499

Basic

- ✓ Live training
- ✓ Access to Recordings
- ✓ Debugging sessions
- ✓ FREE Resources
  - eBooks
  - Webinars
  - Job Update
  - Interview questions
- ✓ Community Support
- ✓ -
- ✓ -
- ✓ -
- ✓ -

Register Now!

~~$549~~

$549

Advanced

MOST POPULAR

- ✓ Live training
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- ✓ FREE Resources
  - eBooks
  - Webinars
  - Job Update
  - Interview questions
- ✓ Community Support
- ✓ Resume preparation
- ✓ **6 Month** Job Support
- ✓ Bonus reattendance opportunity

One sign-up, two chances - Join this batch & the next only

- ✓ -

Register Now!

~~$749~~

$649

Advanced+

- ✓ Live training
- ✓ Access to Recordings
- ✓ Debugging sessions
- ✓ FREE Resources
  - eBooks
  - Webinars
  - Job Update
  - Interview questions
- ✓ Community Support
- ✓ Resume preparation
- ✓ **1 Year** Job Support
- ✓ Bonus reattendance opportunity

One sign-up, two chances - Join this batch & the next only

- ✓ Instant access

Access to previous batch Gen AI Masterclass

Register Now!

Only for batch of **20 lucky** participants

Program Features

Live training

- 2 hours live hands-on session every weekdays

Access to Recordings

- Access to live session recordings on every next day

Debugging sessions

- One-on-one debugging sessions are available every Tuesday, Wednesday, or Thursday.

FREE Resources

- eBooks
- Job Update
- Webinars
- Interview questions

Community Support

- Get assistance, advice, and solutions to each other's problems within our community members

Resume preparation

- We specialize in crafting job-ready resumes through our comprehensive resume preparation service, offering tailored suggestions and guidance to candidates.

Job Support

- Technical job support entails providing guidance and resources to aid individuals in performing their technical roles effectively.
- Interview preparation support

Bonus reattendance opportunity

- Unlock a bonus reattendance opportunity that allows you to retake a complete live session, including your registered batch, and even join the upcoming batch only at no additional cost.

Instant access

- Gain instant access to past batch (Gen AI Masterclass) recordings, slides, and materials within 24 hours of registering.

Self-paced: Note: This program also includes Self-paced videos. Designed to allow learning at the student's own pace

Frequently asked questions:

1. Do we need to attend all sessions for both days?

Yes, All registered participants have to attend all the sessions.

2. Whether Masterclass recording video will be sent to participants?

Yes, Masterclass recorded videos will be sent to all participants.
Note: You will have access for 6 Months after the Masterclass

3. What about Certificate?

All registered participants will get a digital certification copy signed by an Instructor from Psitron Technologies Pvt. Ltd.

4. What other opportunities?

Every registered participant will be added to our community groups after the Masterclass, with possibilities to explore much about ML/AI/MLOps/Gen Ai, AWS, Azure, GCP etc.

5. Opportunity for students?

Students will give the opportunity to work with our team as an intern for one month on real-time industrial projects for no cost.

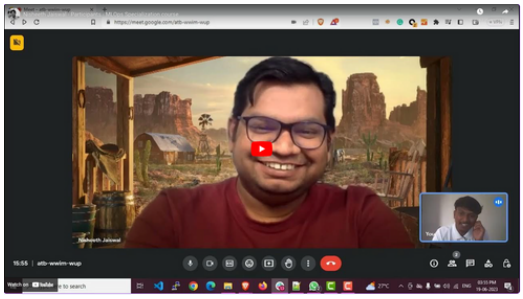
6. What are the prerequisites?

Any person from a science & engineering background can attend this Masterclass, No programming expertise is needed.

Register Now

Glimpse of our happy participants

Nisheeth Jaiswal- Data Scientist from UK



Harsha - Congratulations on your new job 👏 well deserved!

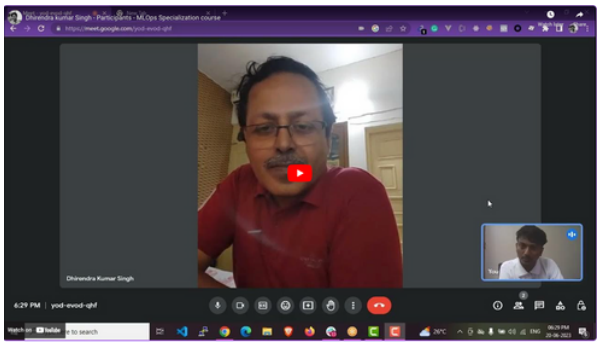
Balasubramanian- what the **ISRO** engineer has to say!

Rohit Madasu- Landed an **MLOps Engineer Role with a 75% Hike — Just 15 Days After Completing the Course! 🚀.**

Dipali Matkar - MLOps Engineer **Must Watch** 👇

Rahul Patil - Congratulations on your new job 👏 well deserved!

Dhirendra Kumar Singh - Participants - MLOps



Fathima Hafeez- Application support engineer for Google

Sitaram - MLOps Engineer

Glimpse of our happy participants

Nanthakumar K C ★★★★★

LinkedIn

Gen AI Course

I am love your detailed information teaching methods.

Saisrivathsan Manikandan ★★★★★

LinkedIn

Gen AI Course

It was a great opportunity for me as a student to gain valuable knowledge and good exposure to this technology

Taraprakash Sahoo ★★★★★

LinkedIn

Gen AI Course

Very much practical oriented course, got to know new things.

Deepeshkumar Malviya ★★★★★

LinkedIn

Gen AI Course

Excellent teaching style. Learnt a lot.

Kapil Pathak ★★★★★

LinkedIn

Gen AI Course

Good exposure of Amazon Bedrock and agents

Harsha Dutta B S ★★★★★

LinkedIn

Gen AI Course

Beautifully curated sessions by Sarath

Fozing Tema Friedrich Jozias ★★★★★

LinkedIn

Gen AI Course

Very insightful training.

Pankaj Baviskar ★★★★

LinkedIn

Gen AI Course

It was nice learning experience to get good knowledge

Ashok Kumar Manohar ★★★★

LinkedIn

Gen AI Course

The training session was overall effective and informative.

Glimpse of our happy participants

Amit Kumar Yadav · 1st
MLOPS | Machine learning | Predictive modeling | NLP | Computer V...
2d · Edited ·

🎓 Delighted to announce the completion of my MLOps certification! 🚀 As businesses increasingly embrace AI and machine learning, mastering the deployment and management of ML models is essential for driving impactful outcomes.

🔍 Throughout this rigorous certification journey, I've acquired in-depth expertise in critical MLOps practices, including version control, CI/CD pipelines, model monitoring, and orchestration.

🔧 Equipped with this knowledge, I'm poised to architect robust ML pipelines, ensuring seamless integration of models into production environments while optimizing performance and scalability.

💥 Grateful for the invaluable guidance and support from Sarathkumar C whose expertise enriched my learning experience and prepared me for real-world challenges.

#MLOps #MachineLearning #Certification #ProfessionalDevelopment #DataScience

Check out Amit Kumar Yadav's MLOps Specialization Course credential issued by Psitron
credsverse.com · 1 min read

11 2 comments

Reactions

Celebrate Comment Repost Send

Give your good wishes...

Most relevant

Sarathkumar C · You
Founder & CEO at Psitron Technologies Pvt.Ltd.
3h

Congratulations Amit Kumar Yadav thanks for choosing us

Nibin Joseph · 2nd
Data Analytics| Data Story Teller | Tableau | SQL | Pyth...
1d ·
+ Follow

I'm thrilled to announce that I have successfully completed the MLOps (Machine Learning Operations) specialization course from Psitron Technologies Pvt.Ltd. This comprehensive program has equipped me with the essential skills and knowledge to streamline the end-to-end machine learning lifecycle, from data preparation to model deployment and monitoring.

During the course, I gained hands-on experience with various MLOps tools and platforms, including AWS, Azure, and GCP (Google Cloud Platform).

Throughout the course, I gained valuable insights into best practices for versioning, monitoring, and serving machine learning models in production environments. I also learned how to leverage cloud-native infrastructure and services to build scalable and reliable MLOps pipelines.

I'm excited to apply my newly acquired skills in real-world projects and contribute to the ever-evolving field of MLOps. A big thank you to the fantastic instructor Sarathkumar C at Psitron Technologies Pvt.Ltd. for their guidance and support throughout this journey.

Stay tuned for more updates as I continue to explore and master the world of MLOps!
#MLOps #MachineLearning #AWS #Azure #GCP #CloudComputing #DataScience #Docker #Kubernetes

https://lnkd.in/gvbSQW_Z

Check out NIBIN JOSEPH's MLOps Specialization course certificate issued by Psitron
credsverse.com · 1 min read

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Reactions

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Ishwar Sukheja (He/Him) · 1st
Practice Head @ Bizmetric | Solution Architect AIML, Cloud Compu...
2w ·

Exciting news! Our team at Bizmetric has achieved a new certification: MLOps Specialization on Azure, AWS, and GCP from Psitron Technologies Pvt. Ltd. This certification has given us in-depth knowledge and understanding of the latest technologies in the field of machine learning operations. We are grateful for the opportunity to expand our skill set and continue to grow in our careers.

We want to express our sincere gratitude to Psitron Technologies Pvt.Ltd. and Sarathkumar C for the hands-on workshop over the past few months. It was a great experience and we learned a lot. Special thanks to Ishan Kohli on behalf of the entire team.

#mlops #aws #azure #gcp #upskill #learning #bizmetric

Snehal Mane
Kajal Singh
Amar Dhumane
Abhishek Tiwari

Celebrating a New Certification

Rohit Jondhale · 2nd
Immediate Joiner | ML Engineer | Data Scientist | MLO...
2w · Edited ·
+ Follow

Excited to announce my latest achievement: I've successfully completed the MLOps Specialization course from Psitron! Huge thanks to Sarathkumar C for simplifying complex concepts and making the learning journey so rewarding.
#MLOps #Psitron #ContinuousLearning #AWS #GCP #Azure #MachineLearingStudio #SageMaker #VertexAI #MLFlow #KubeFlow

Celebrating a New Certification

You and 22 others 2 comments

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Congratulations! Best of luck! Amazing! Congrats!

Add a comment...

Most relevant

Glimpse of our happy participants

Snehal Mane · 2nd
Team Lead - Data Science | AI/ML | MLOPs | Data Engi...
20h · + Follow

Leveling up in MLOps: 🚀 Excited to announce my new achievement of MLOps certification.
Throughout this specialization journey, I've gained invaluable insights and hands-on practice on:
🔷 Building end-to-end machine learning pipelines on Azure, AWS, and GCP
🔷 Managing and deploying machine learning models at scale utilizing Docker, Kubeflow, and Kubernetes
🔷 Implementing continuous integration and delivery (CI/CD) for ML projects using GitHub Actions
🔷 Deploying and monitoring ML models in production environments

I want to express my gratitude to Sarathkumar C for their excellent teaching and hands-on sessions throughout the program. Special thanks to Ishan Kohli and Ishwar Sukheja for providing such a comprehensive and accessible learning platform.

🌟 This accomplishment marks a significant milestone in my continuous learning journey, and I am excited to apply these new skills to Production ML.

#MLOps #MachineLearning #CertificationAchieved #DataScience #ContinuousLearning

Check out Snehal Shankar Mane's MLOps Specialization course certificate issued by Psitron

CHRISTOPHER D · 2nd
Solutions Enabler
1mo · + Follow

Excited to share that I've completed a comprehensive 2-day course on #MLOps!

Advanced Analytics has truly paved the way for Advanced Operations, and this course delved deep into the intersection of #DevOps, #DataOps, and MLOps. It was an enriching experience, merging theory with hands-on practice, ensuring a thorough understanding of the concepts.

From version control to model monitoring, every aspect was meticulously covered,
providing invaluable insights into streamlining the ML lifecycle and maximizing its impact.

A massive thank you to our incredible trainer, Sarath Kumar C, CEO of Psitron Technologies Pvt.Ltd., for guiding us through this transformative journey. Your expertise and passion for the subject made every session engaging and insightful.

#AdvancedAnalytics #MachineLearning #AI #DataScience #ContinuousIntegration #ContinuousDeployment #Automation #AIops #TechEducation #ProfessionalDevelopment #LinkedInLearning #Certificate #HandsOnLearning #Innovation #Efficiency #DigitalTransformation #MLLifecycle #AIInfrastructure #OpsTech #MLOps

Check out Christopher D's MLOps Masterclass Feb 2024 certificate issued by Psitron
credsverse.com · 1 min read

72 · 3 comments · 1 repost
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Add a comment...
Most relevant

Muhammed Rehan Shaikh · 1st
ML Engineer@ CitiusCloud | GenAI |MLOps|
1w · Edited ·

🚀 Exciting News ! 🚀
I'm Thrilled to share that I've just earned my MLOps certification from Psitron Technologies Pvt.Ltd. 🎉! This certification solidifies my expertise in MLOps.
A Huge shoutout to Sarathkumar C for their phenomenal guidance and invaluable insights throughout this journey. The hands-on training approach and comprehensive curriculum have truly been a game-changer.
Excited to apply these skills in real-world scenarios and contribute to innovative projects! 💻
#MLOps #MachineLearning #CICD #AWS #GCP #Kubernetes

Check out Muhammed Rehan Shaikh's MLOps Specialization course certificate issued by Psitron
credsverse.com · 1 min read

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Best of luck! · Congratulations! · Happy for you! · Wishing yo
Add a comment...
Most relevant

Sarathkumar C · You
Founder & CEO at Psitron Technologies Pvt.Ltd.
1w (edited)
Congratulations Muhammed Rehan Shaikh ,thanks for contacting us, all the best
Like · 1 | Reply

Meet Nagadia (He/Him) · 2nd
AI Engineer @CoutLoot | Innovating Personalized Solutions for Enhan...
1w
Congratualations Muhammed Rehan Shaikh 🎉
Like · 1 | Reply

Sreekanth Rao Tangellapally ★★★★★
LinkedIn

The training was structured beautifully that even a person knowing nothing about MLOps can get hold of everything in one go. The content was very useful and applicable, it gives you a good insight into the various concepts & practices in MLOps. Can be imporve on the real time content and use cases w.r.to the industry folks who joined to have the real time use case can be solved using the MLOPS methodology .

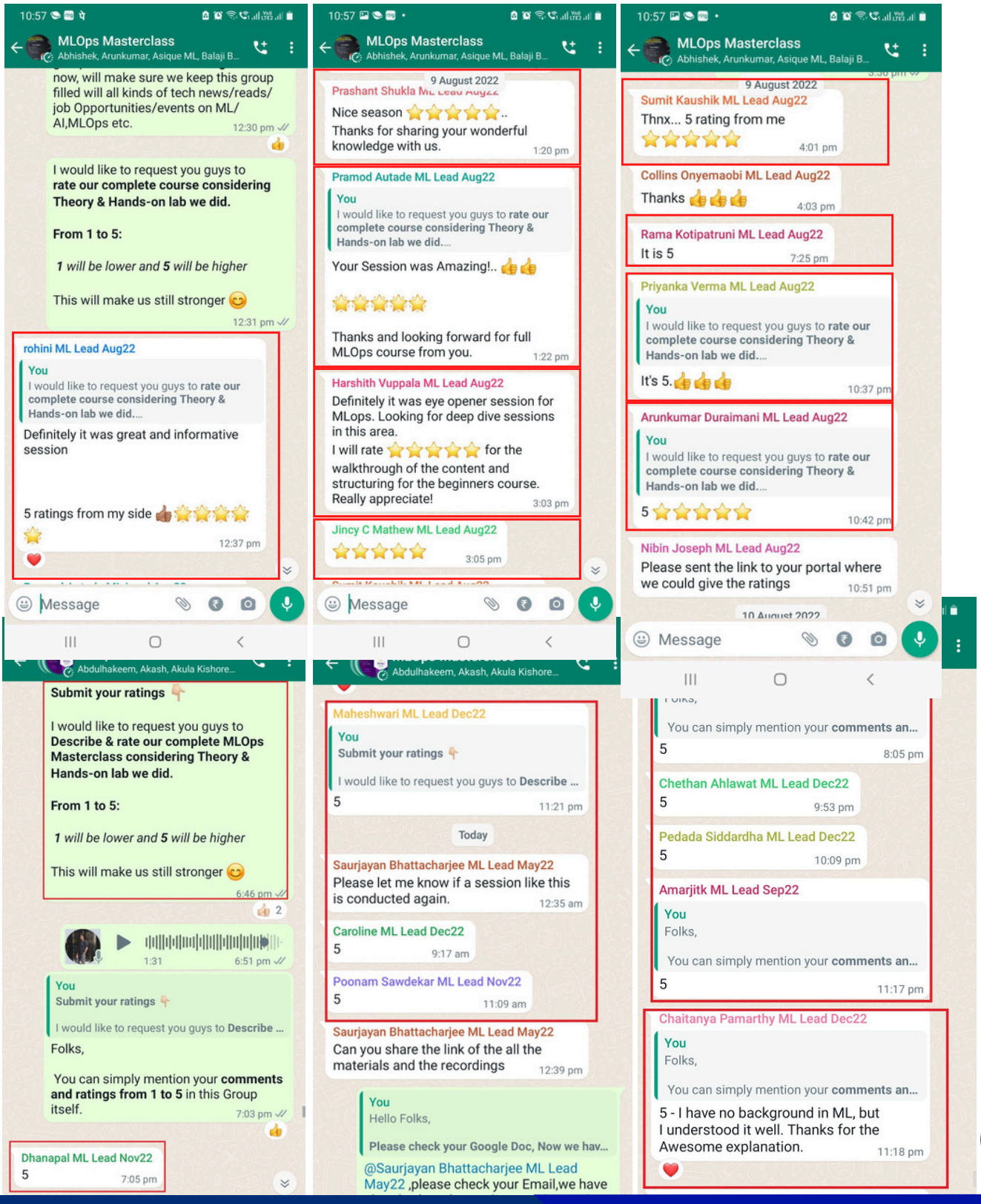
Glimpse of our happy participants

eventbrite

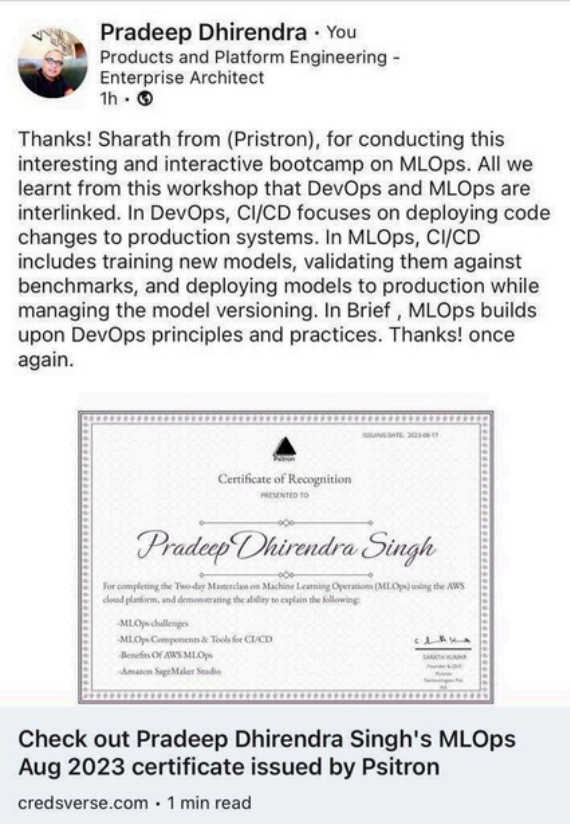
★ 4.2
33 reviews

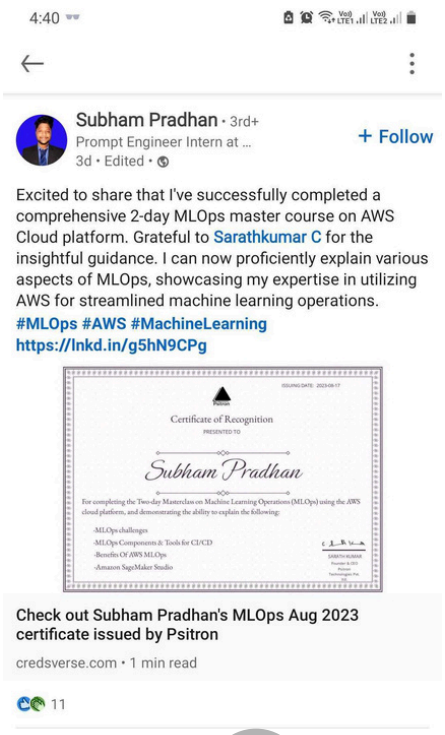
Events High

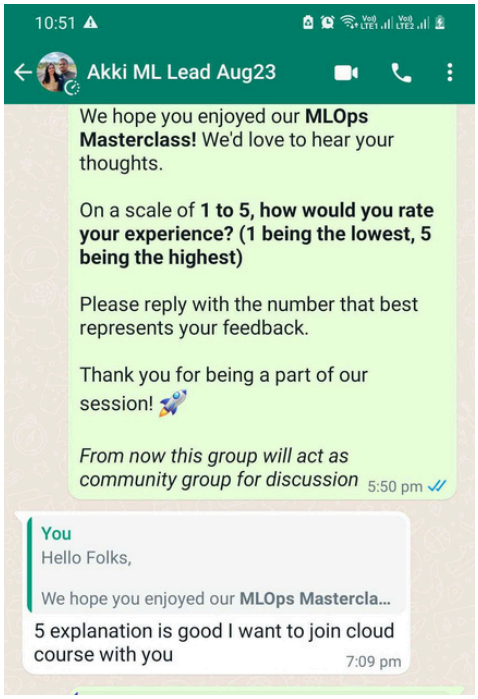
Reviews For Organizer 4.7★ (20)



Glimpse of our happy participants







Vijayakumar Rajendran ★★★★☆

LinkedIn

Detailed session with hands-on experience given clarity about MLOps. Shared all the necessary materials for future reference. Appreciate Sarath's skill in MLOps and received basic knowledge with e2e deployment experience. Overall very good session.

Manohar Erukulla ★★★★★

LinkedIn

The trainer is very experienced and has the clear understanding on MLOps concepts.

Ishwar Ambad ★★★★☆

LinkedIn

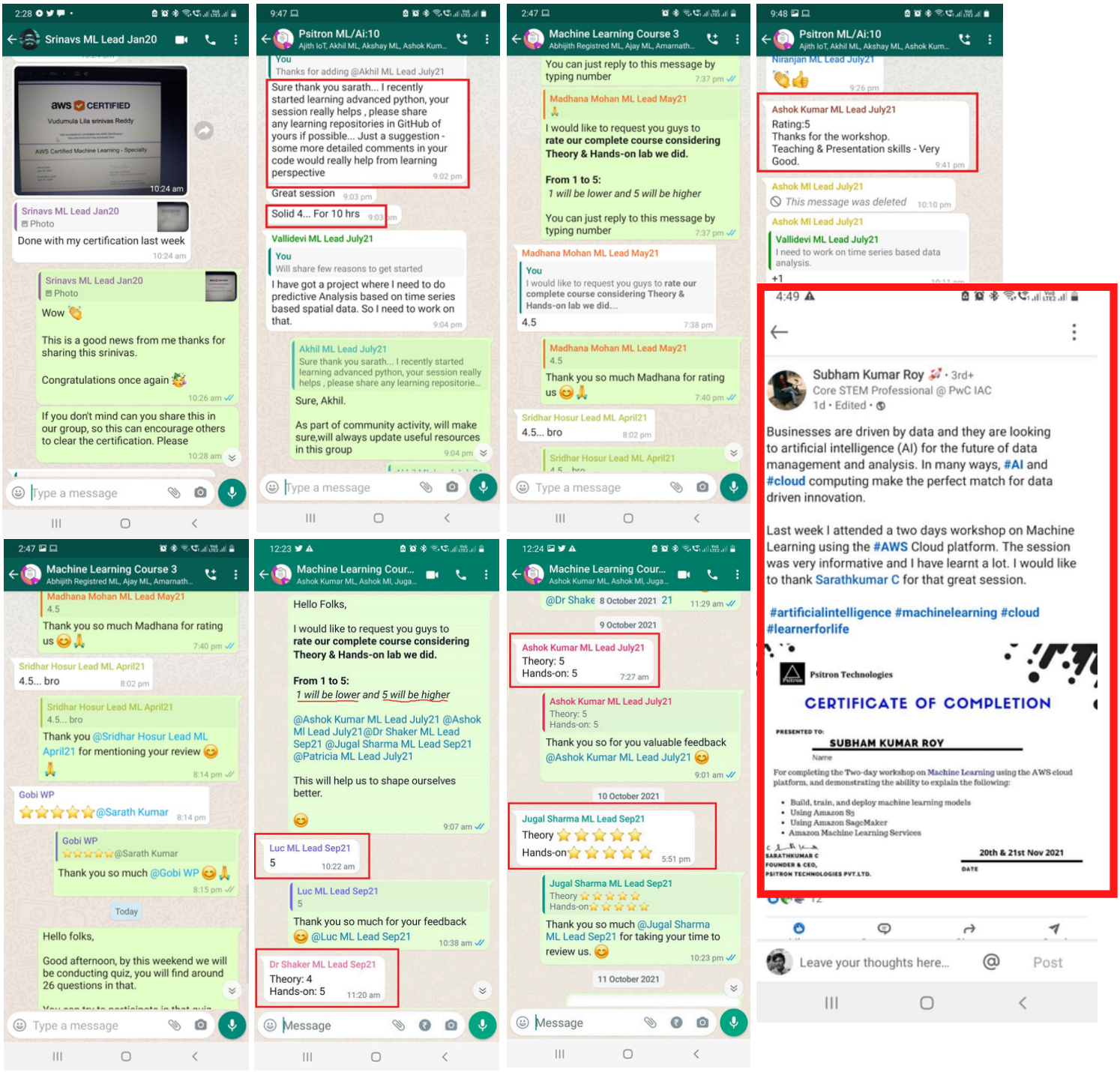
I had great experience learning at Psitron classes. They are always helpful and collaborative when needed.

Anoop Kumar R ★★★★★

LinkedIn

No words, master class was awesome. Looking forward to join indepth sessions, pls keep updating about future sessions.thanks Sarath

Glimpse of our happy participants



Register Now

Psitron

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sarath@psitrontech.com

www.psitrontech.com

P.S. - Today, don't play it safe, play it smart.

Register Now