# Amit Mahindra

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## Professional Summary

Results-driven AI & Data Analyst with experience in machine learning, data analysis, cloud computing, and DevOps. Skilled in designing, developing, and deploying LLM-based AI systems with expertise in prompt engineering, NLP, and data visualization. Strong knowledge of cloud platforms (AWS, Azure, GCP), CI/CD pipelines, and automation tools. Passionate about integrating AI into business use cases to optimize performance and improve ROI.

## Technical Skills

- Machine Learning & AI: Natural Language Processing (NLP), Generative AI, Retrieval Augmented Generation (RAG), AI Agents.

- Programming & Data Analysis: Python, Pandas, NumPy, SQL, Data Cleaning, Data Visualization (Matplotlib, Seaborn).

- Cloud & DevOps: AWS, Google Cloud, Azure, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD Pipelines.

- Databases: RDBMS (PostgreSQL, MySQL), NoSQL (MongoDB, Firebase), Vector Databases.

- Automation & Scripting: Bash, Shell Scripting, Linux Administration, Git, GitLab.

## Work Experience

Freelance AI & Data Analyst | Muktsar, Punjab | Feb 2024 – Present  
- Developed and optimized Large Language Models (LLMs) for real-world applications, focusing on prompt engineering and AI integration.  
- Engineered automated data pipelines for AI models, ensuring efficient preprocessing and transformation of large datasets.  
- Designed interactive dashboards for data visualization, enabling real-time business insights using Matplotlib and Seaborn.  
- Implemented CI/CD workflows for continuous deployment of AI models using GitHub Actions and Jenkins.  
- Managed cloud-based environments (AWS, GCP) for hosting and monitoring AI applications.

## Education

B.Tech in Artificial Intelligence & Machine Learning  
Baba Farid Group Of Institutions, Muktsar, Punjab | June 2024 – Present

Diploma in Computer Science  
Columbia College, Vancouver, BC, Canada | Jan 2018 – Jan 2020

## Certifications

- Data Analysis with Python – Pandas, NumPy, Matplotlib, Seaborn, SQL

- Scientific Computing with Python – Data Structures, Algorithms, AI Model Training

- Relational Databases – PostgreSQL, Database Management, SQL Queries

## Projects & Research

- AI-Powered Chatbot using LLMs: Developed and deployed an NLP-based chatbot leveraging Retrieval Augmented Generation (RAG) for dynamic responses.

- Sales Data Forecasting Model: Built a predictive analytics model using time series forecasting (ARIMA, Prophet) to enhance business decision-making.

- Cloud-Based CI/CD Pipeline for AI Deployment: Implemented a fully automated pipeline for AI model deployment on AWS/GCP, ensuring seamless updates.

## Additional Information

- Available for relocation globally.

- Strong leadership, problem-solving, and analytical skills.

- Passionate about AI-driven digital marketing strategies and data-driven decision-making.