

# Aakash Sehrawat

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github.com/Aakash091-dark

## Summary

AI & Software Engineer specializing in **Python, FastAPI, LangChain, and Azure** for developing scalable backend systems, **LLM-based applications**, and automation workflows. Experienced in **MLOps, Prompt Engineering, and cloud-native deployment** across AWS and Azure ecosystems. Passionate about **solving complex problems using data-driven approaches, real-time processing, and multi-API orchestration** to deliver efficient and impactful enterprise solutions.

## Key Highlights

- Built end-to-end ML pipelines with CI/CD and AWS deployment using Docker and GitHub Actions.
- Reduced backend API latency by 35% through query optimization and async processing.
- Developed LLM-powered knowledge assistant for enterprise document automation.
- Recognized as a Microsoft Certified Azure AI Engineer with 5+ Azure credentials.

## Technical Skills

**Cloud Platforms:** Microsoft Azure, AWS

**Programming Languages:** Python, SQL

**AI & ML:** NLP, LLMs, Deep Learning, Scikit-learn, TensorFlow, PyTorch

**ML Frameworks:** Hugging Face, LLaMA, LangChain

**Data Engineering:** ETL, Data Cleaning, Data Modeling, Real-time Analytics

**Visualization:** Power BI, Matplotlib, Seaborn

**Web Development:** Flask, Django, FastAPI

**Tools:** Git, VS Code, Jupyter Notebook, Docker, MLflow

## Soft Skills

Visionary Thinking, Empathetic Leadership, Deep Focus, Creative Ideation, Problem Solving, Team Collaboration

## Education

**Parul University**, B.Tech. in Computer Science Engineering

- CGPA: 7.31 / 10.0
- **Relevant Coursework:** Data Structures, Operating Systems, Computer Networks, Java, C

**Delhi English Academy**, HSC & SSC

- Percentage: 76%

## Internship Experience

**Backend Python Developer**, EPACK Prefab Technology Limited

- Developed and maintained scalable backend services using **Python** and **FastAPI** for enterprise prefabrication solutions.
- Integrated RESTful APIs and third-party services enabling real-time factory operations.
- Optimized PostgreSQL queries, improving data processing speed by 30%.
- Deployed CI/CD pipelines on Azure for continuous delivery with Docker and GitHub Actions.

## Projects

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### **End-to-End ML Project with MLflow & AWS**

- Designed complete ML pipeline with MLflow for tracking and model deployment.
- Integrated GitHub Actions, Docker, and AWS ECR/EC2 for automated deployment.

### **VerseCraft: Creative Song Lyrics Generator**

- Built LSTM-based deep learning model using PyTorch and Flask.
- Generated multi-genre lyrics with adjustable creativity and coherence control.

### **Enterprise LLM-Powered Knowledge Assistant**

- Built RAG-based LLM assistant using LangChain and vector databases.
- Enabled contextual search and Q&A over enterprise documentation.

## Certifications

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- AZ-900: Microsoft Azure Fundamentals
- SC-900: Microsoft Security, Compliance, and Identity Fundamentals
- DP-900: Microsoft Azure Data Fundamentals
- AI-900: Microsoft Azure AI Fundamentals
- AZ-104: Microsoft Azure Administrator Associate
- Cisco Data Analytics Certification

## Languages

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English (Fluent), Hindi (Native)