

# Mohd Fahad Chougale

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## Professional Summary

Programmer Analyst Trainee at Cognizant specializing in Cloud and DevOps, with strong foundation in Data Science, Machine Learning, and NLP. Proficient in Python, AWS, Linux, and SQL with hands-on experience in building AI-powered applications and leveraging data-driven insights to solve real-world problems.

## Technical Skills

**Machine Learning & AI:** Machine Learning, Deep Learning, Reinforcement Learning, Natural Language Processing (NLP), Large Language Model (LLM)

**Data Science Tools:** PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, Seaborn, Power BI, BeautifulSoup

**Databases:** MySQL, MongoDB, Vector Databases (Pinecone, FAISS)

**Cloud & Deployment:** Docker, AWS

**Frameworks & APIs:** Flask, FastAPI, Streamlit

**Version Control:** Git, GitHub

**Programming Languages:** C, C++, Java, Python, R, PL/SQL

**Operating System:** Linux, Windows 10

## Experience

### Cognizant

Nov'25 – Present

*Programmer Analyst Trainee (Training Phase)*

*Bangalore*

- Undergoing training in DevOps and Cloud domain, learning Linux fundamentals, Python scripting, and AWS cloud services.
- Working on real-world AWS use cases with hands-on practical implementation of cloud solutions and infrastructure.

### Shaadi.com

Dec'24 – Mar'25

*Data Science Intern*

*Mumbai*

- Performed EDA on user interactions to identify patterns for streamlining profile settings and enhancing user experience.
- Optimized recommendation strategies through A/B testing and Two-Tower Model architecture, improving platform engagement.
- Explored Reinforcement Learning with LLMs and deep learning methods for enhanced feature embeddings and personalization.

### JMR Infotech Private LTD

June'24 – July'24

*SQL Intern*

*Remote*

- Developed and optimized SQL & PL/SQL queries for banking applications, improving database efficiency and data retrieval performance.
- Gained hands-on experience with PL/SQL Developer and database management tools, applying SQL knowledge to real-world banking scenarios.

## Projects

### Medical Knowledge Assistant | *Python, RAG, Docker* | [GitHub](#) | [Demo](#)

- Built medical chatbot using RAG, FAISS, and Streamlit for accurate disease diagnosis and health recommendations.
- Implemented FAISS vector database for efficient semantic search across medical knowledge base.
- Deployed on Hugging Face Spaces with Streamlit-based interactive UI and containerized using Docker.

### Post-Discharge Medical AI Assistant | *Python, LangGraph, FastAPI, RAG* | [GitHub](#)

- Built multi-agent AI system using LangGraph with intelligent routing for personalized nephrology patient support across 30+ patient database.
- Implemented hybrid RAG combining FAISS with Tavily web search, integrated with Groq LLM for context-aware medical advice with citations.
- Developed full-stack application with FastAPI backend, Streamlit frontend, and comprehensive session management.

### KrushBot: A Chatbot made for Farmers Awareness | *Python, Flask, NLP* | [GitHub](#)

- Created NLP-powered chatbot delivering agricultural guidance and government scheme information to farmers.
- Developed intent classification system using PyTorch with high accuracy across agricultural domains.
- Designed user-friendly Flask interface enabling seamless interaction between farmers and the chatbot.

### Graphology for prediction of personality traits using Machine Learning | *Python, CNN* | [GitHub](#)

- Created custom dataset of 100+ handwriting samples and trained CNN for personality trait classification.
- Achieved 70% accuracy through model optimization, data augmentation, and feature engineering.

## Education

M.H. Saboo Siddik College of Engineering, University of Mumbai

Dec 2021 – May 2025

*Bachelor of Engineering in Computer Engineering*

*CGPA: 7.62/10*

## Certifications

**AWS Academy Graduate - AWS Academy Cloud Foundations** – Amazon Web Services

**AWS Academy Graduate - AWS Academy Machine Learning for NLP** – Amazon Web Services

**365 Data Science Career Track Certification** – 365 Data Science