Mohd Fahad Chougle

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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, RL, NLP, Large Language Models (LLMs)
Data Science Tools: PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, Seaborn, Power BI, BeautifulSoup
MLOps & DevOps: Docker, Terraform (IaC), Ansible, Jenkins (CI/CD), Git, GitHub, Maven, Gradle
Cloud & Monitoring: AWS, Splunk (Log Analysis), Jira (Agile/Project Management)
Databases: MySQL, MongoDB, Vector Databases (Pinecone, FAISS)
Frameworks & APIs: Flask, FastAPI, Streamlit
Programming Languages: Python, R, Java, C, C++, PL/SQL
Operating System: Linux (Bash Scripting), Windows

Experience

Cognizant   Nov '25 – Present
Programmer Analyst Trainee (Training Phase)   *Bangalore*
   − Built **CI/CD pipelines** using **Jenkins** and **Git** to automate the testing and versioning of Python data scripts.
   − Automated server configuration and environment provisioning using **Ansible** integrated with Jenkins for scalable workflows.
   − Containerized data applications with **Docker** to ensure consistent execution environments across **AWS** cloud instances.

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.

KrushiBot: 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