

AYUSH MISHRA

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SUMMARY

Aspiring Python Backend and AI/ML Engineer with hands-on experience building and deploying production-ready applications. Experienced in developing RAG document assistants, LLM token tracking platforms, and 3-tier AWS applications. Strong foundation in Python, FastAPI, cloud infrastructure, and applied machine learning, seeking 3–6 month internships to contribute to scalable systems.

TECHNICAL SKILLS

Programming:	Python (Advanced), SQL (MySQL), Java (Basic), HTML, CSS
Backend & AI:	FastAPI, Flask, REST APIs, LangChain, RAG, ChromaDB
ML & Data:	scikit-learn, pandas, NumPy
Cloud & Tools:	AWS (EC2, RDS, VPC), Docker, Nginx, Git, GitHub, Render
LLM & AI Tools:	Groq, Cohere Embeddings, Tavily, Ollama (Local LLMs)

PROJECTS

DocTalk — RAG Document Q&A Application

March 2026

GitHub: github.com/mishra-codes/Doctalk

- Built and deployed a FastAPI-based RAG application on Render to answer queries from uploaded PDFs.
- Implemented semantic search using Cohere embeddings and ChromaDB for low-latency retrieval.
- Developed parsing and indexing pipelines using PyMuPDF and integrated Groq LLM (LLaMA).
- Designed production-ready backend architecture to support future SaaS feature expansion.

Apex API — LLM Token Usage Tracker

June 2026

GitHub: github.com/mishra-codes/Apex-API

- Building a browser extension to track real-time LLM token usage across AI platforms.
- Developing a FastAPI backend with usage aggregation, cost estimation, and analytics endpoints.
- Designing a React-based SaaS dashboard with a freemium model for usage insights.

Stock Returns Classifier

June 2026

GitHub: github.com/mishra-codes/stock_predictions

- Built a binary classification pipeline on TCS.NS OHLCV data (2.5 years) using scikit-learn.
- Engineered 10 features including RSI, moving averages, and volume ratios as technical indicators.
- Applied StandardScaler fitted only on training set (410 samples) to prevent data leakage.
- Compared Logistic Regression, Random Forest, and XGBoost — LR achieved best test accuracy of 73% and F1 of 0.68, outperforming ensemble models on noisy financial data.
- Applied 70/15/15 train/val/test split; val→test consistency confirmed no significant overfitting.

Autonomous AI Agent (Chatbot)

February 2026

GitHub: github.com/mishra-codes/AI-Agent

- Developed a multi-tool AI agent using Flask with function-calling capabilities.
- Integrated Tavily Web Search for real-time information retrieval and dynamic tool selection.

ClgSaathi — 3-Tier AWS Application

January 2026

GitHub: github.com/mishra-codes/collegesathi

- Built a 3-tier web application using AWS infrastructure (EC2, RDS, VPC).
- Configured secure architecture with public/private subnets and managed server routing via Nginx.
- Implemented custom domain mapping using DuckDNS for end-to-end deployment.

EDUCATION

KES Shroff College, Mumbai

Expected June 2027

Bachelor of Science in Information Technology

CERTIFICATIONS

- Kaggle Intermediate Machine Learning (2026)
- Kaggle Intro to Machine Learning (2026)
- DevOps Certificate, L&T (2026)

ADDITIONAL INFORMATION

Languages: English, Hindi, Marathi

Interests: Backend Systems, AI Agents, LLM Applications, Cloud Infrastructure

Availability: Open to 3–6 month internships in Python Backend or AI/ML roles