NIKITA PURANDARE

+91 9329970140 | nikita01034@gmail.com
https://github.com/nikitapurandare013 | https://www.linkedin.com/in/nikita-purandare-11b281247

ABOUT

I am an AI & Data Science Engineer with hands-on experience in Generative AI, LLMs, Agentic AI, MCP, NLP, Machine Learning and Deep learning. I excel at building end-to-end AI systems, including chatbots and RAG pipelines. My proficiency in Python, FastAPI, Databases and cloud platforms(AWS,GCP) underpins my ability to deliver high-impact solutions in team settings while adhering to Agile and Scrum methodologies.

EDUCATION

B.Tech + M.Tech (Dual Degree) in Artificial Intelligence and Data Science
School of Data Science and Forecasting, DAVV
CGPA: 8.13/10 (Till Sem-8) • Duration: 2021 – 2026 (Expected)
12th CBSE (Chameli Devi Public School, Indore) – 79.8% (2020–2021)
10th CBSE (Chameli Devi Public School, Indore) – 88.8% (2018–2019)

PROFESSIONAL EXPERIENCE

GenAI Intern – *Bajaj Finserv Direct limited (Pune – Onsite)*
June 2025 – Sept 2025

- Built an Agentic AI based equity research assistant (Chatbot) for Indian and Foreign (US) markets using Azure OpenAI, FastAPI, Angular and RAG pipelines to process 500+ pages in <10 seconds with 83% retrieval accuracy for Indian market and 90% for foreign markets.
- Automated financial data extractions & analysis across PDFs, CSVs, Excel and transcripts etc. with confidence scoring and cutting the research time by 70%.
- Implemented login, session management, and conversation history retention features in the chatbot to improve user experience and continuity.
- Designed a cost optimization framework to monitor, evaluate, and compare models across various bots, enabling efficient tracking of token usage and formulating effective prompt optimization strategies.
- Deployed the framework on AWS EC2 for scalable and reliable execution.

AI/ML Intern – *Novel Group (Indore - Hybrid)*
June 2024 – Sept 2024

- Built a LLM end to end pipeline using LangChain and Vertex AI (GCP) to enhance prompt engineering workflows.
- Achieved an 80% improvement in model response consistency through prompt enhancement and iterative troubleshooting.
- Automated structured PDF report generation from model outputs and integrated email delivery workflows.
- Documented and standardized best practices for scalable LLM-based application development.

ACADEMIC PROJECTS:

UniGuide – Context-Aware Academic Chatbot (RAG, Groq LLM)

- Designed an intelligent chatbot for DAVV university using LangChain, BeautifulSoup, and Flask.
- Integrated Groq LLM with HuggingFace sentence-transformers (all-MiniLM-L6-v2) and FAISS vector DB.
- Enabled real-time, accurate, and context-aware responses through an optimized RAG architecture.
- Built an interactive frontend using JavaScript, HTML/CSS for seamless user engagement.

Question Answering System (LLM + RAG)

- Implemented a document-based QA system using LlamaIndex, Google Gemini, and Streamlit.
- Utilized in-memory vector storage for fast document retrieval and context preservation.
- Enabled real-time interaction with the LLM through a user-friendly interface.

Dynamic Portfolio Allocation Using Reinforcement Learning

- Built and compared DQN and PPO-based RL models for portfolio optimization.
- Achieved Sharpe Ratio of 0.4044 (vs -0.5016 benchmark), reduced volatility (0.0184 vs 0.0468), and positive alpha.
- Reduced market exposure with a negative beta (-0.2758 vs 1.0), showcasing superior risk-adjusted returns.

SKILLS

Programming: Python, SQL, C/C++
Generative AI & LLMs: OpenAI, Azure OpenAI, Gemini, Claude, Groq, LangChain, LangGraph, LlamaIndex, Prompt Engineering, AI Agents, MCP
Machine Learning & DL: Scikit-learn, TensorFlow, Keras, Reinforcement Learning
NLP: spaCy, NLTK, sentence-transformers
Vector Databases: FAISS, Chroma
Web & APIs: FastAPI, Flask, Django, Streamlit, React, Angular
Cloud & DevOps: AWS, GCP, Docker, Git
Data & Analytics: Pandas, NumPy, Power BI, Time Series Forecasting
Tools & Platforms : Azure OpenAI, AWS EC2, Google Vertex AI, HuggingFace, GitHub, Postman , Jira

VOLUNTEERING & LEADERSHIP

Core Volunteer & Paper Presentation Host – *iBCD 2024 (International Conference)*   *23–24 August 2024*
- Facilitated technical sessions and supported speaker coordination and execution.

Volunteer – *Google Developer Student Club (SDSF DAVV)*   *Sept 2022 – Sept 2023*
- Organized 4+ technical events and workshops, boosting student participation and tech awareness.

Volunteer – *TechHunters (College Club)*
- Assisted in organizing HackHive, a 36-hour hackathon; provided backend support and mentor coordination.

CERTIFICATES AND ACHIEVEMENTS

- Google Cloud Foundations Certificate – Completed 8 badges (2024)
- Google – Generative AI Learning Path (Beginner) (2024)
- Microsoft Power BI Certification – DDU-KK, DAVV (July 2023)