7666W JACKRABBIT LN, PEORIA, UNITED STATES, 85383 •
NVNKNCHRL@GMAIL.COM • 5134137242

NAVEEN CHAITANYA KANCHARLA

Machine Learning Engineer

PROFESSIONAL SUMMARY

Machine Learning Engineer with 1+ years of experience building real-world AI tools and LLM-based agents, with strong Python development and deployment expertise. Proven success in automating workflows using OpenAI, LangChain, and Streamlit. Demonstrated ability to create scalable, production-ready tools—from sentiment analyzers to RAG systems—while collaborating in Linux/Git environments. Eager to apply analytical skills in quantitative domains and excited to learn financial data systems, PnL, and trading concepts to support mission-critical AI tools for end-users.

EMPLOYMENT HISTORY

ML JUNIOR DEVELOPER   **Aug 2022 - Dec 2023**
GIGABYTE   *Banglore*

- Collaborated on AI/LLM prototype tools in Python, improving model inference performance by 20% through optimized data pipelines and modular API integration.
- Supported deployment of Python-based utilities and internal command-line data tools for engineers and analysts, reducing onboarding time by 35%.
- Assisted in end-user onboarding and troubleshooting across Linux-based dev environments, leading to a 50% drop in repeat support tickets.
- Contributed to Git-based version-controlled modules, including unit-tested components and integration test support for MCP-style microservices.
- Wrote and maintained concise user-facing documentation and internal dev wikis for tool usage, installation, and data validation workflows.

SKILLS

Python *(Expert)*, API development *(Expert)*, GIT *(Expert)*, LINIUX/UNIX *(Expert)*, Docker *(Expert)*,

RESTful APIs *(Expert)*, Data handling(ETL pipelines, APIs, JSON, CSV) *(Expert)*, Machine Learning Libraries *(Expert)*,

AWS *(Expert)*, TensorFlow, PyTorch, Scikit-learn *(Expert)*, CI/CD *(Expert)*, MLflow, Docker, Git, Airflow *(Expert)*,

SQL *(Expert)*, Bash *(Expert)*,

Recommendation Systems, NLP, Feature Engineering, A/B Testing, Speech Recognition *(Experienced)*.

EDUCATION

MASTERS IN INFORMATION TECHNOLOGY   **Jan 2024 - Aug 2025**
St Francis College   *New York City*

  Graduated with the GPA of 3.84

BACHELOR'S IN COMPUTER SCIENCE WITH AI&ML   **Jun 2018 - May 2022**
SRM institute of Science and Technology   *Chennai,India*

  graduated with the CGPA of 8.5 on the scale of 10

LINKS

Github: github.com.

ACHIEVEMENTS

♦ **AI Agent for Discount Tire (Demo Project)**
- ◊ Designed and deployed an interactive AI agent allowing users to order tires via voice prompts using integrated **speech recognition**.
- ◊ Built end-to-end pipeline: user speech → NLP intent extraction → real-time product recommendation → order placement.
- ◊ Achieved >**92% intent accuracy** and reduced order latency to under **200 ms**, demonstrating robust **real-time**, **consumer-facing** ML application.

GitHub Contributions & Profile Achievements
- ◊ Earned **Pull Shark** badge: merged multiple public pull requests within a short timeframe, demonstrating active collaboration.
- ◊ Earned **Quickdraw** badge: closed PRs/issues within 5 minutes of opening, showcasing fast turnaround and responsiveness.
- ◊ Earned **Pair Extraordinaire** badge: co-authored successful pull requests, illustrating **collaboration** and team contributions.

Conducted comprehensive academic research that improved project outputs by 20%, aiding Account Managers in delivering data-driven insights to clients.

Supervised a team of researchers in executing multiple academic projects simultaneously, ensuring adherence to timelines and enhancing overall productivity by 30%.

PROJECTS

SENTIMENT ANALYSIS APP

Achieved 90%+ sentiment classification accuracy by training a Random Forest on 20,000+ tweets using TF-IDF vectors and Sentiment140 dataset.
Deployed model using Streamlit and visualized performance metrics to enable real-time predictions from user input.

AI CODE REVIEWER

Improved code quality review time by 60% by building an LLM-powered web app that analyzes Python code with OpenAI GPT-4.
Delivered instant feedback on design, naming, and logic issues via a Paste/Upload interface using Streamlit.

CHAT AGENT WITH RAG SUPPORT

Enabled natural language Q&A with context awareness by integrating LangChain + OpenAI GPT-4 in a chatbot using Streamlit.
Added Retrieval-Augmented Generation and speech input to support multi-modal user interaction for better UX.

IMAGE-TO-TEXT AGENT

Automated text extraction from images using LangChain's agentic framework with OpenAI Vision (GPT-4o) for OCR and reasoning.
Converted printed/handwritten meal plans into structured data and answered follow-up questions from users.

MULTI-DOCUMENT RAG CHATBOT

Built a scalable RAG system by chunking documents, embedding them via Sentence-BERT, and retrieving answers using FAISS.
Boosted document-query relevance by 85% through semantic similarity search across PDFs and CSVs.