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

NAVEEN CHAITANYA KANCHARLA

Machine Learning Engineer

PROFESSIONAL SUMMARY

Detail-oriented Machine Learning Engineer with 1+ year of experience at GIGABYTE Technologies, specializing in evaluating and debugging large language models (LLMs) using real-world software engineering tasks. Proven ability to work with high-quality, open-source GitHub repositories (500+ stars), automate development environments with Docker, and analyze test coverage for production-level codebases. Skilled in Python, JavaScript, and Git, with a strong understanding of LLM performance evaluation, codebase navigation, and issue triaging. Passionate about bridging AI research with practical engineering workflows to push the boundaries of AI-assisted development.

EMPLOYMENT HISTORY

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

- Collaborated with cross-functional teams to evaluate LLMs on real-world GitHub repositories with 500+ stars, improving dataset accuracy and code coverage by 20%.
- Automated local dev environments and Dockerized 15+ repositories, reducing LLM bug-fix test setup time by 35%.
- Triaged and analyzed 100+ GitHub issues across trending open-source libraries, enabling the creation of high-signal SWE tasks for model evaluation.
- Modified and executed large-scale codebases to assess LLM performance in practical debugging scenarios, directly informing research direction.
- Worked with researchers to identify and benchmark repos across Python, JavaScript, and C++, leading to 25% broader dataset diversity across tasks.

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)*,

Large Language Models *(Expert)*.

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.