

# Naveen Chaitanya Kancharla

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## Summary

Results-driven Machine Learning Engineer with hands-on experience in **model risk management**, **documentation**, and **validation** through a 6-month internship at Amazon. Skilled in developing and maintaining **robust** ML model inventories, implementing performance monitoring, and conducting model **risk assessments** to meet **regulatory requirements**. Adept at **collaborating** with cross-functional teams, translating complex technical concepts into clear insights for **lending partners** and compliance stakeholders. Proficient in Python, SQL, and explainability techniques such as SHAP, with a proven track record of improving model transparency and operational efficiency.

## Experience

### Amazon | Hyderabad, India

ML Intern | 06/2023 - 12/2024

- Collaborated with ML model developers to build and document a **robust** model inventory, improving internal model visibility by **35%**, aligning with **model risk management** standards.
  - Implemented monitoring scripts in **Python** and **SQL** to track model performance and detect drift, reducing **validation** turnaround time by **20%**.
  - Partnered with cross-functional teams to **communicate** ML model assumptions and results to both technical and non-technical stakeholders, increasing stakeholder comprehension scores by **15%** in surveys.
  - Designed and executed risk **assessment** pipelines for ML models, ensuring compliance with internal governance frameworks and external **regulatory requirements**.
  - Enhanced **explainability** of tree-based models by integrating SHAP value analysis, improving model interpretability for **lending partners** and compliance teams.

## Skills

Python, JavaScript (Node.js), SQL Frameworks: Scikit-learn, TensorFlow, FastAPI Frontend: React, React Native (basic familiarity) Backend: Node.js, Flask Infra & DevOps: AWS, Docker, Git, CI/CD Databases: Redis, PostgreSQL, DynamoDB Other: LLM integrations (OpenAI, Hugging Face), Agile, JIRA EDUCATION

## Education

### St Francis College | New York

INFORMATION TECHNOLOGY | 08/2025

Graduated with CGPA of 3.84

### SRM Institute Of Science & Technology ( Deemed University ) | Chennai, India

ComputerScience with AI&ML | 05/2023

Graduated with the CGPA of 8.77

## Projects

### AI-Driven Auto Job Application System (*Python, LangChain, OpenAI, Selenium, RAG, CAPTCHA Bypass*)

- Designed and deployed an AI-powered application that **automatically applies to job postings** by analyzing job descriptions, matching them with optimized resumes, and submitting applications end-to-end.
- Implemented a **Retrieval-Augmented Generation (RAG)** pipeline to extract key requirements from job postings and compare them against multiple sample resumes, generating a **match percentage score**.
- Integrated **CAPTCHA-solving automation** to bypass hiring portals' application barriers, increasing successful submission rate by **40%**.
- Automated personalized resume rewriting using LLMs, boosting job relevance score by an average of **25%**.
- Built monitoring and logging dashboards to track applications, match scores, and success metrics across multiple job boards.

### Multi-Document RAG Chatbot (*Python, LangChain, FAISS, OpenAI*)

- Developed a chatbot capable of answering queries from multiple documents using custom chunking, embeddings, and vector database retrieval.
- Optimized FAISS indexing to handle **30+ documents** with sub-second retrieval latency.

#### **Chat Assistant for Tires** (*JavaScript, Node.js, Stripe API, OpenAI*)

- Built a conversational assistant to handle **payment processing**, order placement, and customer queries for a tire company.

#### **Sentiment Analysis App** (*Python, Transformers, Flask*)

- Created a multilingual sentiment analysis tool with real-time text classification for social media content monitoring.

#### **Image-to-Text Agent** (*Python, Tesseract, LangChain*)

- Built an OCR-based agent to convert images to text and integrate extracted data into NLP pipelines.

#### **AI Code Reviewer** (*Python, LangChain, OpenAI API*)

- Developed an AI-powered reviewer for GitHub repositories to provide pull request feedback and code quality reports.