Sahil Chordia

College Park, MD | (240) 610-1453 | chordiasahil24@gmail.com | linkedin/in/sahil–chordia | github/protocorn

PROFILE

AI/ML Engineer with experience in deploying and optimizing computer vision solutions, including vector search, multimodal RAG, and production systems, for efficiency gains.

SKILLS

Python, JavaScript, TypeScript | PyTorch, TensorFlow, LangChain | React.js, Node.js, Express.js | MongoDB, PostgreSQL, Pinecone, FAISS, Qdrant | AWS, Docker, Git, Streamlit | Ollama, Gemini API, CLIP

EDUCATION

University of Maryland | CGPA: 3.62   **College Park, MD**
Master of Science in Data Science   August 2024 - May 2026

A.P. Shah Institute of Technology | CGPA: 3.52   **Thane, MH**
Bachelor of Engineering in Computer Science   June 2020 - May 2024

WORK EXPERIENCE

Raising The Floor – *Nonprofit focused on accessibility technology*   **Washington D.C (Remote)**
AI Intern   June 2025 - August 2025

- Automated AT tool discovery via two-pass Gemini 2.0 Pro pipeline, cutting manual verification time by **50%**
- Automated data cleaning and enrichment workflows, resolving 95% of dataset inconsistencies to improve the quality of a 300+ tool database.
- Developed a chatbot using Ollama Gemma2:9B, enhancing ambiguous query handling accuracy to 90%, and implemented model monitoring for performance tracking.
- Improved search functionality by integrating cosine similarity-based vector search (Qdrant) for enhanced tool recommendations.
- Significantly reduced QA cycle time by developing reusable AI audit scripts, improving development speed.

PROJECTS

Mimikree - Personalized AI Assistant | mimikree.com   February 2025 - Present

- Built an AI assistant that ingests diverse content (social media, PDFs, images) to generate personalized LLMs
- Engineered a hybrid retrieval pipeline (70% expanded query + 30% original), improving RAG accuracy.
- Integrated Gemini 2.0 Flash with Pinecone for dynamic vector search and real-time responses.

AI Document Generator – Capital Area Food Bank AI Challenge   February 2025 - May 2025

- Led a team of 3 to design a RAG engine generating grant proposals, PPTs, & posts from **1,500+ documents.**
- Embedded text and images (CLIP model + Cloudinary) into Pinecone with metadata for multimodal retrieval.
- Decreased revision time by **60%** through AI-assisted selective edits, full-document re-generation from a single prompt, and content suggestions with error detection.

Local Document Search Engine   March 2025 - May 2025

- Built privacy-first vector search (FAISS + Sentence Transformers) with intelligent code-aware chunking.
- Reduced re-indexing time by **~80%** for large repos through caching and parallel indexing.
- Integrated Ollama Llama3:8B for query expansion, improving semantic relevance by **~20%.**

PUBLICATIONS

Chordia, S. et al. Cross-Domain Sentiment Analysis: An Extensive Study of Machine Learning and Deep Learning Models, Datasets, and Preprocessing Techniques for Predictive Performance. CSCT 2023, Link.

ACHIEVEMENTS

- **Finalist (Top 3%)** – i.mobilothon 3.0, Volkswagen Group Technology Solution India (Nov 2023)
- **3rd Place** – Firefly Hackathon, NIT Warangal (Apr 2022)