

# Sahil Chordia

College Park, MD | (240) 610-1453 | [chordiasahil24@gmail.com](mailto:chordiasahil24@gmail.com) | [linkedin/in/sahil-chordia](https://linkedin/in/sahil-chordia) | [github/protocorn](https://github/protocorn)

## PROFILE

Data Science M.S. candidate with expertise in developing intuitive UI for complex systems and deploying AI systems. Proficient in TypeScript and React, with a passion for building products with excellent developer experience.

## SKILLS

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

## EDUCATION

### University of Maryland | CGPA: 3.62

Master of Science in Data Science

College Park, MD

August 2024 - May 2026

### A.P. Shah Institute of Technology | CGPA: 3.52

Bachelor of Engineering in Computer Science

Thane, MH

June 2020 - May 2024

## WORK EXPERIENCE

### Raising The Floor – Nonprofit focused on accessibility technology

AI Intern

Washington D.C (Remote)

June 2025 - August 2025

- Automated AT tool discovery via two-pass Gemini 2.0 Pro pipeline, cutting manual verification time by **50%**
- Resolved **95%** of detected dataset inconsistencies (mislabeled categories, duplicates, outdated entries) by automating enrichment workflows for a database of 300+ tools.
- Built an inclusive chatbot (Ollama Gemma2:9B), improving ambiguous query handling accuracy to **90%**
- Boosted search by integrating cosine similarity-based vector search (Qdrant) for AT tool recommendations.
- Reduced QA cycles from days to under **2 hours** by developing reusable AI audit scripts.

## PROJECTS

### Mimikree - Personalized AI Assistant | [mimikree.com](https://mimikree.com)

February 2025 - Present

- Developed an AI assistant with user-friendly UI to ingest diverse content (social media, PDFs, images) to generate personalized LLMs
- Designed and implemented a hybrid retrieval pipeline, improving RAG accuracy and developer experience.
- 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, translating complex ideas into simple, usable UI.
- 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

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