SHARANYA KRISHNAMURTHI

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GitHub: https://github.com/Sharanya-krishnamurthi/Projects

About

Machine Learning Engineer with 4+ years of experience specializing in NLP, OCR, and Generative AI. Proven track record in building and deploying LLM-powered systems, RAG architectures, and intelligent document processing pipelines. Passionate about creating scalable AI products with real-world impact. Currently pursuing M.S. at Georgia Tech, seeking AI/ML internships and research opportunities for Summer 2025.

Experience

ZLabs, Zoho Corporation – India | Oct 2019 – Nov 2023

Member Technical Staff - R&D

- Developed LLM-based OCR pipelines for documents (EOBs, ID cards) using fine-tuned Microsoft LayoutLM, achieving 95%+ accuracy.
- Designed and optimized OCR text alignment and extraction logic, improving downstream NLP model performance.
- Built and deployed custom NLP models (Rasa, Spacy) for named entity extraction in structured/unstructured documents.
- Introduced few-shot learning for line-item extraction, cutting training time while maintaining high F1 scores.
- Curated instruction datasets and fine-tuned proprietary LLMs to enhance document understanding across domains.
- Acted as AI deployment lead, collaborating cross-functionally with product, infra, and QA teams.

Projects

- AI-Powered Document QA System (RAG, Gemini 2.0, ChromaDB, Gradio, Hugging Face Spaces)
 - Developed and deployed an end-to-end Retrieval-Augmented Generation (RAG) system using Gemini 2.0, text-embedding-004, and ChromaDB, with a Gradio frontend hosted on Hugging Face Spaces - Demo
- DocSummarizer (Hugging Face Transformers, NLP)
 - Built a document summarization tool using DistilBART-CNN-12-6, deployed on Hugging Face Spaces Demo
- Recipe Recommender System (ML, Scikit-learn)
 - Created a multi-criteria recommendation system using Indian Food 101 dataset and NLP-based filtering.
- Raven's Matrices AI Agent (AI, OpenCV)
 - Engineered an AI agent that solved 84/96 Raven's abstract reasoning tasks using pattern recognition.
- Pathfinding Robot (Search Algorithms, Python)
 - \bullet Implemented BFS, DFS, A*, and Bi-Directional A* algorithms for grid-based robot navigation.
- Impact of Generative AI on Cognition (Research Ongoing)
 - Exploring how interaction with GenAI influences cognitive performance and critical thinking.

Skills

- · Languages: Python, Java, C
- ML & NLP: PyTorch, Hugging Face Transformers, Scikit-learn, Rasa, Spacy
- LLMs & GenAI: Fine-tuning, RAG, LangChain, Multi-modal models
- ML Ops: Docker, REST APIs, CI/CD, Model Optimization
- · Tools: ChromaDB, Gradio, OpenCV, Pandas, NumPy, Seaborn
- Others: Intelligent Document Processing (IDP), Android App Dev

Education

M.S. in Computer Science (Interactive Intelligence) – Georgia Tech (4.0/4.0) - Ongoing

Jan 2024 - May 2026 | Valid U.S. Work Permit till July 2028

B.Tech in Electronics & Communication – Crescent Institute, India (9.89/10)

July 2015 - May 2019 | University Gold Medalist