

Sai Paresh Karyekar

🏠 Atlanta, GA 📞 +1 (404) 200-3907 ✉️ saikaryekar@gmail.com 🌐 github.com/saikaryekar 🔗 linkedin.com/in/sai-karyekar

EDUCATION

Georgia Institute of Technology, Atlanta, GA <i>Master of Science in Electrical and Computer Engineering (ML)</i>	May 2025 <i>GPA: 3.9/4</i>
Veermata Jijabai Technological Institute (VJTI), India <i>Bachelor of Technology in Electronics & Telecommunication Engineering</i>	June 2023 <i>CGPA: 9.62/10</i>

RELEVANT COURSEWORK

Generative and Geometric Deep Learning, Data and Visual Analytics, Machine Learning, Technology Entrepreneurship (Teaching Assistant)

EXPERIENCE

NVIDIA, Santa Clara <i>GenAI Intern</i>	June 2024 - Aug 2024
<ul style="list-style-type: none">Developed & fine-tuned an LLM (Llama3) to power a Generative AI-based Retrieval-Augmented Generation (RAG) tool, improving blog generation efficiency.Deployed the application via Gradio on an AWS EC2 instance, creating an interactive frontend for AI-generated content enhancing adoption by 90%.Integrated LangChain & LlamaIndex to enhance document retrieval, chunking and indexing.	
Georgia Institute of Technology, Atlanta <i>Student Researcher</i> 🔗	Aug 2023 - Dec 2023
<ul style="list-style-type: none">Built predictive ML models using scikit-learn to analyze large-scale education datasets, improving academic performance prediction by 5%.Applied feature engineering & data analysis (ANOVA, OLS regression) to derive insights on student learning behaviors.	

PROJECTS

Optimizing Mathematical Reasoning in SLM 🔗	Sept 2024 - Dec 2024
<ul style="list-style-type: none">Fine-tuned a T5-small transformer model (60M parameters) with LoRA & Chain-of-Thought (CoT) prompting to optimize math reasoning.Benchmarked quantized T5-base models, reducing memory consumption by 5% and improving accuracy by 12%	
CityScout: Statistics driven Safe City Recommendation System 🔗	Sept 2024 - Dec 2024
<ul style="list-style-type: none">Developed a crime risk prediction model using Random Forest & TF-IDF, for region-specific safety analysis.Processed & analyzed 2GB+ of crime data using PySpark & Pandas on Google Cloud.Built an interactive Tableau dashboard, to visualize city-level crime risk scores.	
ApplyCation: Automated Job Application Platform 🔗	Oct 2024
<ul style="list-style-type: none">Built an automated job application system using Selenium & Claude API, reducing application time by 50%.Designed a Streamlit-based UI for user profile management, integrating Flask backend & GCP.	

SKILLS

Machine Learning & AI	LLM Fine-Tuning, RAG, LangGraph, OpenAI API, Anthropic API
Backend & Cloud	Python, C++, Flask, AWS,GCP, Docker, PostgreSQL, Linux, React
Deep Learning	PyTorch, TensorFlow, Hugging Face, OpenCV , Git

EXTRA-CURRICULARS

- Contributor**, Workout of the Day Prediction (GT Data Science Club) - ML-based fitness analysis project.
- Social Chair**, Grad Society of Women Engineers (Grad SWE) - Organized networking events to foster in-person connections.