

Akhil Nampally

US Citizen | 781-619-4370 | anampally3@gatech.edu | linkedin.com/in/akhilnampally | github.com/akhilnam | akhilnam.xyz

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science and Mathematics

EXPERIENCE

Incoming Data Engineer Intern

May 2026 – August 2026

Meta

Menlo Park, CA

- Incoming Data Engineer intern for Summer 2026

Undergraduate Student Researcher

August 2024 – December 2025

Georgia Institute of Technology

Atlanta, GA

- Designed and implemented a real-time data acquisition system for a capacitive liquid level sensor.
- Developed **predictive models and data visualizations** using Python to analyze sensor data trends.
- Established automated data logging and graph generation tools, **improving calibration time by 75%**.
- Delivered comprehensive weekly presentations on research findings, allowing for iterative improvements.

Data Engineer Intern

May 2024 – September 2024

Strategy Kiln

Providence, RI

- Managed and optimized **\$65 million in client leads** using CRM automation and streamlining sales pipelines.
- Engineered lead funnel automation, improving **lead generation by 25%** through data-driven optimizations.
- Leveraged SQL and Python to analyze data, improve segmentation, and forecast client acquisition trends.

PROJECTS

LLM-SDQ — Efficient Large Language Models | *PyTorch, Hugging Face, QAT, LoRA, YAML*

- Built switchable-precision **quantization** for GPT-2 with per-layer bit-widths, cutting GPU memory use by 4×.
- Integrated **LoRA** adapters and fine-tuned on SQuAD, achieving a **+16% F1 score** improvement over baseline.
- Developed a YAML-based routing system for runtime model reconfiguration, improving deployment flexibility.

SlangBERTa — Slang Emotion Classification with RoBERTa | *PyTorch, Hugging Face, Transformers*

- Fine-tuned **RoBERTa** for emotion recognition in slang-heavy text, targeting robustness to informal and adversarial-style language.
- Designed a **synthetic data augmentation pipeline** to expand coverage of rare emotions and linguistic variants.
- Analyzed performance and error modes across real and synthetic samples to guide iteration.

EV-Arb-Tool: Odds Evaluation & Prop Finder | *Python, FastAPI, React.js, Pandas, Node.js, HTML, CSS*

- Developed a full-stack sports betting tool using Python & React.js to automate EV (expected value) calculation and odds analysis, **processing 10,000+ props daily** across sportsbooks and DFS platforms.
- Built a responsive web dashboard displaying DFS lines and global props with EV and American odds conversion.
- Engineered **backend pipelines and APIs** to aggregate odds, calculate fair probabilities, and surface 100+ high-value betting opportunities.

PhantomShield – Real-Time Deepfake Detection Tool for Video Calls | *Python, PyTorch, Electron, OpenCV*

- Designed and built an AI-powered deepfake detection system for video calls, leveraging **computer vision and deep learning** to enable accurate, real-time detection and response.
- Trained and deployed a custom deep learning model using PyTorch and ResNet18 architecture, achieving **85% accuracy** in detecting deepfake videos.
- Built a cross-platform desktop application using Electron.js with a modern UI that provides real-time alerts and risk visualization for detected deepfakes.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, R, JavaScript, HTML/CSS

Machine Learning & Data Science: PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, LangChain, TensorRT

Software Development & Tools: Git, Linux, AWS, Google Cloud, Flask, FastAPI, ROS, React, Node.js, Cuda

Certifications: IBM Generative AI & LLMs, Google Advanced Data Analytics

Interests: AI/ML, Software Development, Sports, LLMs, Deep Learning, Transformers, Investing