

# Anish Kothuri

210-689-1107 | anishkothuri@gmail.com | linkedin.com/in/anish-kothuri | github.com/anishkothuri

## EDUCATION

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### University of Texas at Dallas

Bachelor of Science in Computer Science, Minor in Finance

Richardson, TX

Aug 2022 – May 2026

## EXPERIENCE

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### AI Ignite Project Manager

AI4ALL Artificial Intelligence

Jul 2024 – Present

San Francisco, CA

- Directing technical mentorship for **300+ engineers** (Ivy League & Top Universities in US) building machine learning portfolios, guiding model architecture selection, data preprocessing, evaluation, and symposiums
- Managing program operations and engineering workshops, debugging complex training pipelines and establishing validation frameworks aligned with **responsible AI** benchmarks

### Full Stack Developer - Youtube Intelligence

University of Texas at Dallas

Jan 2026 - May 2026

Richardson, TX

- Spearheaded the architecture of a multi-page analytics dashboard using Next.js, React, and TypeScript, directing the implementation of custom Recharts visualizations and dynamic UI filters to streamline complex data workflows.
- Orchestrated an AI pipeline using **FastAPI and Supabase/Postgres** to ingest YouTube video data, extracting structured health claims via LLMs and converting them into high-level narrative themes.

### Machine Learning Intern

Vitatech Biometrics - Cancer Classification Machine Learning

May 2025 – Aug 2025

Houston, TX

- Built and trained a ResNet50 CNN for **cancer classification**, distinguishing 20 cancer types from histopathology slides with **95%+ precision**, recall, and F1 score on 10,000+ images; leveraged Python, TensorFlow
- Developed an end-to-end healthcare **ML pipeline** for digital pathology, including image splicing, preprocessing, & Grad-CAM interpretability; deployment proposed for a web based interface supporting real time cancer diagnosis

### Software Engineering Intern

Wellness Center for Older Adults

Aug 2024 – Jan 2025

Richardson, TX

- Engineered a full-stack transit application, replacing manual Excel-and-email workflows with automated scheduling pipelines and admin privileges that boosted efficiency by over **350%**.
- Integrated secure database and authentication systems using **React, Next.js, PostgreSQL, and Auth0** to support scalable backend operations, protected user records, and API-driven workflows

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, TypeScript, JavaScript, Solidity, SQL, HTML/CSS

**Developer Tools:** Git, GitHub, Docker, Cursor, EVM, Jupyter, Colab, PyCharm, Jira

**Web Frameworks:** Next.js, React, Node.js, Express, Tailwind CSS, Auth0, REST APIs

**AI Frameworks:** PyTorch, TensorFlow, Keras, YOLOv8, ResNet50, OpenCV, Scikit-Learn

**Cloud & Databases:** AWS Lambda, Supabase, PostgreSQL, MySQL, MongoDB

**Machine Learning:** Deep Learning, Computer Vision, MLOps, LLM Fine-Tuning, RAG

**UI/UX & Analytics:** Figma, Dashboard Architecture, amCharts, Highcharts, Excel

**Coursework & Certs:** Data Structures, OOP, Blockchain | Google Cybersecurity, Apply AI, Discover AI

## PROJECTS

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### Active Thermal Object Detection | Python, PyTorch, Ultralytics YOLO, SAM

April 2026 – June 2026

- Built YOLOv8 models for **thermal object detection** & active tracking, boosting detection accuracy by 35% and reducing misclassifications by 25% across key classes with parameter tuning and augmentation
- Enhanced model performance with precision +10%, recall +8%, and F1 score +12%, enabling scalable real time tracking of animals and features in low visibility imaging conditions.

### Predictive Outbreak Analytics Program | Python, LangChain, OpenAI, Scikit-Learn

Aug 2023 – May 2024

- Developed an AI application utilizing decision trees and Scikit-learn on historical COVID-19 datasets of over 50,000 records, achieving **92% accuracy** in forecasting regional outbreak trends.
- Integrated a **retrieval-augmented generation (RAG)** workflow to query medical documentation, cross-referencing model outputs with text data to present interpretable findings directly to Discover AI.