Anjith Prakash Chathan Kandy

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EDUCATION

Northeastern University, Boston, MA **Sep 2023 – Dec 2025**
Master of Science in Artificial Intelligence - Khoury College of Computer Sciences, GPA – 3.85/4.0

TECHNICAL SKILLS:

Languages & Frameworks: Python, Java, C++, Typescript, React, HTML/CSS, SQL
Machine Learning & Data Science: LangChain, TensorFlow, PyTorch, HuggingFace, Transformers, OpenCV
Cloud & MLOps: AWS (Lambda, Bedrock, DynamoDB), GCP (Vertex AI), Docker, Git

PROFESSIONAL EXPERIENCE

Generative AI Product Developer, *The Burnes Center for Social Change* **Jan 2025 – Present**

- Architected and shipped GrantWell, a production-grade AI platform helping MA communities secure federal funding. Built the frontend in React and TypeScript and backend services in Python.
- Designed a Retrieval-Augmented Generation (RAG) pipeline using Amazon Bedrock (Claude 4) and vector search to match project descriptions against complex federal NOFO documents with high semantic accuracy.
- Led rapid product iteration cycles based on field testing with non-technical users; engineered features such as real-time compliance checking and automated document summarization, directly increasing user adoption.

AI Research Assistant, *Massachusetts General Hospital (Harvard Medical School)* **Jun 2024 – Aug 2024**

- Synthesized and analyzed large-scale imaging datasets from over 100 clinical studies to evaluate CNN-based segmentation performance.
- Investigated AI integration into clinical radiology workflows, focusing on reducing inference latency for GPU-accelerated Monte Carlo simulations in dose estimation.
- Co-authored analysis on evolving quality control standards, aligning AI model outputs with strict medical safety regulations.

AI Research Intern, *Amrita CREATE* **Jun 2022 – Jun 2023**

- Built a transformer-based Continuous Sign Language Recognition system using heatmap-guided pretraining, achieving an 85% accuracy improvement over baseline models.
- Optimized model architecture for potential edge deployment in UMANG government services as part of the C20 Digital Education initiative.

HIGHLIGHTED PROJECTS

Scalable MLOps Pipeline & Recommendation System **Sep 2024 – Dec 2024**

- Designed an end-to-end MLOps pipeline using Docker for containerization and Apache Airflow for workflow orchestration.
- Deployed emotion-detection models via GCP Vertex AI, implementing MLflow for experiment tracking and model registry management.
- Engineered automated data ingestion workflows with parallel processing and CI/CD integration to ensure high availability and pipeline reliability

PUBLICATIONS

- Peer Reviewer, European Journal of Radiology Artificial Intelligence, 2025
- *Enhancing Radiation Safety in CT Imaging through Artificial Intelligence*, Physica Medica – European Journal of Medical Physics, 2025 (*under review*)
- *Real-time patient-specific-dose in CT through use of artificial intelligence*, Journal of Radiological Protection, 2024