

AMRUTH PAI THUKARAM

Dallas, TX, United States



469-465-4829



amruthpaiuni@gmail.com



linkedin.com/in/amruthpai



github.com/Immortal-Pi

Education

University of Texas at Dallas, USA

May 2026

Master of Science in Business Analytics & AI

GPA 3.91

Nitte Meenakshi Institute of Technology, India

Aug 2019

Bachelor of Science in Computer Science and Engineering

GPA 3.28

Technical Skills

Programming Languages: Python (Numpy, Pandas, Scikit-learn), R, SQL (MySQL, Postgres, SQL Server), YAML

Machine Learning & Data Science: Pytorch, Tensorflow, Keras, MLFlow, DagsHub, DVC, Apache Airflow

Skills and Tools: Jira, GitHub Actions (CI/CD Pipelines), MongoDB, Gephi, Streamlit, AWS (Amazon Web Services), Azure, Docker (Container), Flask, Tableau, Agile Methodologies

Certifications: IBM Professional Data Science, DeepLearning.AI TensorFlow Developer

Work-Experience

Infosys

Sep 2019 - Mar 2024

Associate Consultant

Bangalore, India

- **Increased operational efficiency by 15%** through diagnosing & resolving client system issues, developing customized application programs, and conducting data-driven analyses to identify performance bottlenecks
- **Collaborated with cross-functional teams**, including analysts and data engineers, to ensure seamless system integration of data systems, data consistency, and timely project delivery
- **Optimized and refactored code, improving system performance by 25%**, while analyzing log data to enhance application reliability and efficiency
- **Automated client reports** by utilizing data from DataLake and IBM DB2, developed data pipelines to process and transform the data, and created interactive dashboards that significantly improved reporting accuracy, reduced manual efforts, and enhanced data accessibility for stakeholders

Biztime IT Solutions

May 2018 - July 2018

Intern

Bangalore, India

- **Collaborated with a team of 6 to develop ZonalDesk**, a mobile app providing reliable services to rural areas
- Integrated Google Maps API to design an intuitive and efficient map interface, **enhancing app usability & service**
- Developed an Android application to provide rural communities with easy access to essential services

Projects

Blind Assist | Python, CNN, YOLOv2, OpenCV, RaspberryPi

- Constructed an IoT device to enhance the navigation and interaction capabilities of visually impaired individuals, offering a comprehensive solution through advanced technologies
- Trained YOLOv2 on a custom dataset to enhance real-time object detection in indoor environments
- Utilized Google Text to Speech API to facilitate seamless interaction between the device and the user, providing real-time feedback and instructions

NephroSight | Python, CNN, VGG16, MLflow, Github Actions, CICD, AWS EC2, DVC, DagsHub

- Developed and deployed an ML solution pipeline for tumor detection in kidney from CT scan images using transfer learning with a pretrained VGG16 model and custom classifier layers
- Utilized DVC for data versioning, MLflow for experiment tracking, and Docker for containerized deployment on AWS EC2, automated through CI/CD pipelines in GitHub Actions
- Enhanced scalability and reproducibility by implementing a modular structure, configuring workflows using YAML, and deploying the solution on AWS EC2 for efficient cloud operations

Legal Assistant | Python, Streamlit, Together AI API's, LlamaIndex, ChromaDB, Crawl4AI

- Participated in the Llama Impact Hackathon, contributing to the design and implementation of a legal assistance chatbot capable of navigating intricate government websites, breaking down bureaucratic language
- Improved response relevancy using Crawl4AI for targeted web crawling of legal and procedural content.
- Fine-tuned the LLM model using custom datasets on Hugging Face to deliver accurate, empathetic, and context-aware responses for legal queries, and deployed it for community access and testing