

AMRUTH PAI THUKARAM

Dallas, TX, United States



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immortal-pi.github.io



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github.com/Immortal-Pi

Education

University of Texas at Dallas

Aug 2024 - May 2026

Master of Science in Business Analytics & AI

Dallas, Texas

Coursework: Analytics with R, Advance Statistics, Database Foundation, Data Visualization

Nitte Meenakshi Institute of Technology

Aug 2015 - Aug 2019

Bachelor of Science in Computer Science and Engineering

Bangalore, India

Coursework: Statistics, Python Programming, Machine Learning, Software Engineering

Technical Skills

Languages: Python, R, SQL (MYSQL, DB2), NoSQL (MongoDB), JAVA

Analytics: Data Wrangling, Statistical Modelling & Quantitative Analysis, Business Insight, Process Modeling

Data Science & Visualization: Pytorch, Tensorflow, Streamlit, Weights & Biases, Tableau, Matplotlib, Pandas, ggplot2, Gephi

Tools & Competencies: Office 365, Excel, Jira, Agile, VS Code, PyCharm, Github, Scikit-learn, Keras, PySpark

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

Work-Experience

Infosys

Aug 2019 - Mar 2024

Associate Consultant

Bangalore, India

- **Increased operational efficiency by 15%** through diagnosing & resolving client system issues, while developing customized application programs to meet unique client requirements
- Collaborated with cross-functional teams to ensure **consistent system integration and timely project delivery**
- **Optimized and refactored code, resulting in 10%** improvement in system performance
- **Automated client reports** by utilizing DB2 SQL, significantly enhancing reporting accuracy and reducing manual efforts
- **Mentored junior developers**, fostering skill development and contributing to the team's overall growth and productivity
- Designed and maintained application programs for IBM I systems using RPGLE and CLLE, ensuring high reliability
- **Led the development of a comprehensive full stack application** for Nike retailers, seamlessly integrating front-end (Angular) and back-end (Java, Spring Boot, MySQL) components

Biztime IT Solutions

May 2018 - July 2018

Software Engineer Intern

Bangalore, India

- **Led a team of 6 in developing ZonalDesk**, a mobile app providing reliable everyday services to rural areas
- Integrated Google Maps API to design an intuitive and efficient map interface, **enhancing app usability & service**
- Developed the app using Android Studio, delivering a user-friendly solution tailored to rural accessibility challenges

Projects & Leadership

Llama-Law (Legal Assistance ChatBot) | Python, Streamlit, Together AI API's, LlamaIndex, ChromaDB, Crawl4AI

- Developed a legal assistance chatbot as a part of Llama Impact Hackathon, capable of navigating complex government websites, simplifying bureaucratic language, and offering multilingual support for improved accessibility
- Enhanced relevancy of responses by utilizing Crawl4AI for targeted web crawling of legal and procedural content
- Fine-tuned a LLM model using legal datasets on Hugging Face to deliver accurate, empathetic, and context-aware responses for legal queries. Deployed the model on Hugging Face, enabling community access and testing

Satellite Imagery | Python, CNN, U-Net, OpenCV, Hugging Face, Weights and biases

- Developed and deployed a satellite image segmentation model on Hugging Face, enabling segmentation of images
- Integrated U-Net architecture for deep learning-based image segmentation
- Utilized Weights & Biases for real-time model diagnostics and performance optimization

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

- Designed an IoT device to assist visually impaired individuals in performing daily activities, including navigation and object recognition, in real time.
- Used Raspberry Pi as a central hub for data processing and real-time communication with a server. Developed three integrated subsystems for object detection using YOLOv2, text localization and recognition using Tesseract OCR, and path guidance using OpenCV-based pixel identification algorithms.
- Integrated Google Text to Speech API to enable seamless user interaction and real-time auditory feedback