AMRUTH PAI THUKARAM

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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, JAVA, IBM DB2/SQL
Tools & Technologies/Frameworks: VS Code, MS-Excel, Tableau, Hugging Face, LangChain, GitHub, Git
Algorithms & Models: Random Forest, Time Series Analysis, Logistic Regression, U-Net, Decision Tree
Certifications: IBM Professional Data Science, DeepLearning.AI TensorFlow Developer

Work-Experience

Infosys	**Aug 2019 - Mar 2024**

Associate Consultant — *Bangalore, India*

- **Increased productivity and operational efficiency by 5%** by diagnosing and resolving client system issues, and developing customized application programs to meet specific requirements
- Collaborated with cross-functional teams to ensure **consistent system integration and timely project delivery**
- **Improved system performance by 10%** through optimization and code refactoring
- **Automated client report**s by utilizing IBM DB2 SQL to improve reporting efficiency and accuracy significantly reducing manual effort and turnaround time
- **Mentored junior developers**, fostering skill development and contributing to the team's overall growth and productivity
- Developed and maintained application programs on IBM i systems using RPGLE & CLLE
- **Led the development of a comprehensive full stack application** tailored for Nike retailers during my internship, ensuring seamless integration between front-end and back-end components

Biztime IT Solutions	**May 2018 - July 2018**

Software Engineer Intern — *Bangalore, India*

- **Led a team of 6 in developing ZonalDesk**, a mobile app designed to deliver fast and reliable everyday services to rural areas with limited accessibility
- Implemented Google Maps API to create an intuitive map interface, **enhancing service reach and app usability**
- Developed the app using Android Studio, ensuring smooth user experience and robust functionality

Projects & Leadership

SQL Agent vs RAG | Python, Streamlit, AzureOpenAI, Langchain, ChromaDB, SQLite   GitHub

- Developed and **compared SQL Agent and RAG chat bot capabilities to assess their performance** in handling structured tabular datasets
- Integrated Azure OpenAI API for chatbot capabilities and embeddings, utilizing LangChain SQL Agent for SQL operations and ChromaDB for RAG-based vector searches
- Built an interactive web interface using Streamlit for easy access and testing

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

- Developed and deployed a satellite image segmentation model on Hugging Face, enabling segmentation of images
- Integrated **U-Net for deep learning-based segmentation**
- Utilized Wandb for **real-time diagnostics and optimal model performance**

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

- Constructed an IoT device to **enhance the navigation and interaction capabilities of visually impaired individuals**, offering real time feedback
- Integrating YOLO2 for object detection, Tesseract for text recognition, with OpenCV for path detection
- Leveraged Google Text to Speech API to **facilitate seamless interaction between the device and the user**, providing real-time feedback and instructions