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, RPGLE/CLLE
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, IBM AI Engineer

Work-Experience

Infosys **Aug 2019 - Mar 2024**
Associate Consultant *Bangalore, India*

- Developed and maintained application programs on IBM i systems using RPGLE & CLLE
- Increased productivity and operational efficiency by 5% by diagnosing and resolving client system issues, and developing customized application programs to meet their specific requirements
- Collaborated with cross-functional teams to ensure seamless system integration and data consistency across platforms, while working closely with the team to successfully deploy projects on time
- Improved system performance by 10% through optimization and code refactoring
- Automated client reports by utilizing IBM DB2 SQL to improving 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
- 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*

- Contributed to the development of ZonalDesk, a mobile application designed to deliver fast and reliable everyday services to people in rural areas with limited accessibility
- Played a key role in implementing Google Maps API to create an intuitive and functional map interface, enhancing the app's usability and service accessibility. Utilized Android Studio for app development

Projects & Leadership

RAGify Chatbot | Python, Streamlit, LLM, Hugging Face, FAISS, GenAI, OpenAI API **Jun 2024 - Sep 2024**

- Developed RAGify, a document retrieval chatbot, as an introductory project in Retrieval-Augmented Generation (RAG), allowing users to upload PDFs and engage in conversations with the bot about the content of those documents
- Leveraged the OpenAI API for embeddings and comparing it with other LLM APIs for optimal response results
- Utilized FAISS for efficient similarity search and Streamlit for web user interface

Satellite Imagery | Python, Deep Learning, CNN, U-Net, OpenCV, Hugging Face, Weights and biases **Mar 2024 – Jun 2024**

- Developed and deployed a satellite image segmentation model on Hugging Face, enabling segmentation of images
- Integrated a U-Net CNN model for training on satellite images, optimizing it for precise segmentation tasks
- Utilized Wandb(Weights &Biases) for comprehensive training diagnostics, ensuring optimal model performance

Blind Assist | Python, CNN, YOLOv2, OpenCV, RaspberryPi **Mar 2019 - Aug 2019**

- Constructed an IoT device to enhance the navigation and interaction capabilities of visually impaired individuals, offering a comprehensive solution through advanced technologies
- Integrated YOLOv2 algorithm for accurate object detection, Tesseract for text recognition, and OpenCV for path detection, ensuring reliable guidance
- Utilized Google Text to Speech API to facilitate seamless interaction between the device and the user, providing real-time feedback and instructions