Ashish Sunny Abraham

Aspiring Software Engineer

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EDUCATION

UNIVERSITY OF FLORIDA   Gainesville, FL, USA
Master of Science (M.S.); Major in Computer and Information Sciences (GPA: 3.56 / 4.00)   Aug 2022 - May 2024
Coursework: Distributed OS, Information Visualization, Machine Learning, Adv Data Structures, Computer Network Security.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY   Hyderabad, TS, IND
Bachelor of Technology (B.Tech.); Major in Computer Science Engineering (GPA: 9.1 / 10.0)   Aug 2017 - Jul 2021
Coursework: Data Structures, Operating Systems, Algorithms, Database Management, Object-oriented programming.

WORK EXPERIENCE

THOMSON REUTERS   Dallas, TX, USA
Software Engineering Intern   May 2023 – Aug 2023
- Planned and developed a new and sophisticated Customer Feedback Analysis System using Java, Springboot, AWS S3, EC2, and NoSQL Database in the backend, resulting in an 10% increase in customer satisfaction ratings.
- Increased efficiency of feedback by automating the data collection and analysis process through the Customer Feedback Analysis Dashboard using Power BI for data visualization and by refining SQL stored procedures.

THOMSON REUTERS   Hyderabad, TS, IND
Associate Software Engineer   Nov 2020 – Aug 2022
- Developed full stack solutions with US-based cross functional teams using Java, Springboot, and Oracle SQL, speeding up service delivery by 6.5%
- Designed an alert and log monitoring system utilizing Datadog technology with the tech-ops team to ensure seamless operation of API Endpoints of load balancers and servers, enhancing system performance by 40 % .
- Collaborated with the DevOps team to implement a CI/CD pipeline using Jenkins, resulting in a 30% reduction in deployment time and a 20% decrease in deployment errors, leading to improved code quality and faster release cycles.
- Completely executed a Language Migration POC, transitioning project codebase from JavaScript to TypeScript, resulting in a 40% decrease in post-release bugs and errors, and optimizing development environment efficiency.
- Maintained and wrote software code in Java, Angular JS, Oracle Database and GIT for 15 key-product features as a part of scrum teams following Agile Methodologies, raising performance metrics by 20 % on average.

UNIVERSITY PROJECTS

Maternal Health Risk Prediction Model | Python · Feature Selection · Artificial Intelligence (AI) · Neural Networks
- Engineered a feature selection model utilizing IoMT device data to predict maternal health risks, refining feature subsets to enhance predictive accuracy.
- Evaluated ML models to improve performance and inform cost-effective IoMT device design for simplified healthcare monitoring.

Conversational LLM-RAG model Chatbot | Python · LangChain · Streamlit · ChromaDB · OpenSearch · RAG
- Built a conversational chatbot using OCI Gen AI service utilizing Large Language Models and Retrieval-augmented generation.
- This chatbot is memory enabled and works on the concept of data+LLM allowing it to answer questions based on the given data.

VAE & GAN Model Review on MNIST Dataset | Python · Deep Learning · Gen AI · Keras
- Implemented Variational Autoencoder (VAE) and Generative Adversarial Networks (GANs) for image generation on MNIST dataset.
- Analyzed their performance and capabilities in capturing latent representations and generating realistic images.

Text-to-Image Model | Python · Stable diffusion · Huggingface library
- Utilizing Hugging Face's diffusion library, developed a stable diffusion pipeline based text-to-image generator project.
- Seamlessly transforming textual prompts into vivid visual representations with remarkable stability.

Log Data Visualizer | Python · Natural Language Processing · React JS · Tableau
- Built an information visualization software enabling users to conduct data analysis on 40000+ records of textual log data.
- Performed Natural Language Processing with a test accuracy of 94% to classify & predict log categories.

SKILLS

Languages: Java, Python, React JS, JavaScript, SQL, HTML5, CSS3
Technologies: Springboot, Oracle Database, PostgreSQL, AWS, REST API, .NET MVC
Tools: GIT, Docker, Visual Studio .NET, Datadog, Azure, GitHub, Tableau, Power BI, Postman, Kubernetes, Microsoft Office
ML Libraries: Scipy, Numpy, OpenCV, Keras, PyTorch, Tensorflow, Pandas, Scikit, Seaborn, NLTK

ADDITIONAL

Courses: Fast.ai - Practical Deep Learning for Coders, Fast.ai - From Deep Learning Foundations to Stable Diffusion
Certifications: Database Design - Oracle, Python for Data Science and AI, Create and Manage Cloud Resources - Google Developers Group , Architecture on Amazon Web Services, Oracle Cloud Infrastructure 2024 Generative AI Professional