

Deepak Bolleddu

AI Engineer

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🐙 GitHub Profile
🌐 LinkedIn Profile

EDUCATION

- **Masters of Computer Science and Engineering (ML, Bigdata & Cyber Security)** 2024-25
University of Wollongong, Australia CGPA: In Progress
- **Bachelor of Technology in Computer Science and Engineering** 2017-21
JNTUH, Hyderabad CGPA: 7.47

EXPERIENCE

- **AI Code Trainer** May - AUG 2024
Scale AI freelance
 - Training AI Systems and Large Language Models (LLMs)
 - Solving the coding problems by writing functional and efficient code in any the languages - Python, Java, JavaScript, SQL, C/C++ and/or HTML/CSS, to improve the quality of the responses.
 - Optimizing code to run at maximum efficiency.
 - Writing robust test cases to confirm code works efficiently and effectively.
 - Producing generative prompts as an input for the AI model. Evaluating the quality of AI-generated code response including human-readable summaries and output predictions.
- **Senior systems Engineer** Aug 2023 - Feb 2024
Infosys Limited Hyderabad
 - Followed Agile methodologies (Scrum, Kanban) alongside development practices (TDD, BDD) throughout requirements gathering, analysis, design, development, and testing phases.
 - Developed AI model to generate unit test cases from user stories presented in Jira Scrum board.
 - Engineered this Automation with Transformers, OpenAI Pre-trained model, RestAPI and Python.
 - Our model is able to Generate new test cases with 60 percent coverage with 40 percent of developer intervention.
 - With experience mentored and lead team of 4 members to achieve this task.
- **System Engineer** SEP 2021 - Aug 2023
Infosys Limited Hyderabad
 - Software Developer in a major U.S.-based banking application, primarily focused on implementing enhancements and optimizations to improve application performance.
 - Contributed to the technology-driven improvements of the application, mentoring new team members, while also gaining expertise in the banking domain and maintaining the existing codebase.
 - Developed and maintained code according to the baseline technical design, executing unit and integration tests. Provided timely support and fixes for critical defects.
 - Designed and implemented RESTful web services using Java (Jersey and Spring Boot), and validated existing services. Performed API testing and validation with tools like Postman and SoapUI.
 - Authored and maintained documentation for over 10 APIs, ensuring alignment with industry standards and best practices.
 - Performed API and Unit testing of application by developing and applying test cases.

RESEARCH PROJECTS

- **AI-Powered Chest X-ray Abnormality Detection Using YOLOv5** View Project
Developed an AI-based system for automated detection of thoracic abnormalities in chest X-rays.
 - Trained a YOLOv5 model on 18,000 DICOM images from the VinBigData dataset, achieving 80
 - Implemented bounding box localization for detecting 14 critical findings, including Cardiomegaly, Pneumothorax, and Pleural Effusion.
 - Optimized model performance using transfer learning, hyperparameter tuning, and precision-recall analysis.
 - Developed a web-based interface for real-time image upload and abnormality detection.
 - Technology Used: Python, YOLOv5, OpenCV, Flask, Google Colab, NumPy, Pandas.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, SQL, Java, C/C++, JavaScript, HTML/CSS
Libraries & Tools: NumPy, Pandas, OpenCV, TensorFlow, PyTorch, Scikit-learn, Matplotlib, Seaborn
AI/ML Frameworks: YOLOv5, TensorFlow, PyTorch, Hugging Face Transformers
Big Data Technologies: Apache Spark, Hadoop, Snowflake, Azure Synapse
Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Jenkins, CI/CD Pipelines
Databases: MySQL, PostgreSQL, MongoDB, Firebase
Cybersecurity: Network Security, Cloud Security, Encryption, Penetration Testing
Software Development Tools: Git, GitHub, Jira, Postman, VS Code, PyCharm
Relevant Coursework: Machine Learning, Deep Learning, Big Data Analytics, Cybersecurity, Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management Systems, Software Engineering
Areas of Interest: AI/ML, Computer Vision, Big Data Analytics, Cloud Security, Large Language Models (LLMs), Web Development
Soft Skills: Problem Solving, Self-learning, Research, Team Collaboration, Presentation, Adaptability

CERTIFICATIONS

- Microsoft Certified: Azure AI Engineer Associate**View CertificationFeb 2024
- Microsoft Certified: Azure Enterprise Data Analyst Associate**View CertificationJan 2024

AWARDS

- ADM UNIT RISE AWARD** Infosys Limited, HyderabadJul 2023
Infosys- This is a great achievement and we congratulate you for this award that recognizes the hard work and dedication that you put in by going the extra mile and delivering your very best
- Infosys Insta AWARD**Infosys Limited, HyderabadSep 2022
Infosys- Deepak is scaling up quick and well done on the Legal T-Doc project in vehicle RTB, delivering complex stories in short-time!