BHANUPRAKASH BANDA

LinkedIn | GitHub | Portfolio | (219)900-4554 | bandabhanu1098@gmail.com | Romeoville, IL

Technical Skills

Certifications: Microsoft Certified Azure Fundamentals
Programming and Scripting: Python, R, C, Java, SQL, JavaScript, HTML, CSS
Cloud Services: AWS IoT Core, S3, EC2, Kinesis, AWS Lambda, Rekognition, Azure IoT, Azure Digital Twin
Libraries: NumPy, pandas, Scikit learn, NLTK, Keras, TensorFlow, Matplotlib, Seaborn, PyTorch
Tools: Selenium, Rest Assured, Appium, Postman, TestNG, Cucumber, Jira, Playwright, Tableau, Power BI
Emerging Technologies: AR, VR, Metaverse, Digital twin, Robotics, Computer vision, Artificial Intelligence

Education

Master of Science in Computer Science 08/2023 - 05/2025
Lewis University, Romeoville, IL GPA: 3.93/4.0
Concentration: Artificial Intelligence

Bachelor of Technology 08/2017 - 07/2021
G. Pulla Reddy Engineering College, Kurnool, India GPA: 3.62/4.0
Majors: Mechanical Engineering

Work Experience

Programmer Analyst 09/2021 - 07/2023
Cognizant Technology Solutions, Hyderabad, India

- Spearheaded collaborative efforts with the emerging technologies R&D team to develop and implement cutting-edge data science and machine learning solutions, increasing client satisfaction by **40%**
- Engineered automated test scripts using **Python, Selenium, Cucumber BDD, and TestNG**, performing data wrangling and analytics to improve regression testing accuracy by **20%**, and overall efficiency by **25%**
- Reduced deployment times by **30%** by implementing **CI/CD pipelines**, streamlining software releases
- Validated API functionality and reliability for RESTful microservices and drone systems by conducting rigorous tests, achieving **99.9% data integrity** and ensuring seamless data transmission
- Optimized drone data transmission and architected a cloud-integrated robotic test framework, reducing latency by **50%**, improving reliability by **80%**, and supporting scalable remote testing
- Pioneered **AR/VR/MR testing**, leveraging AI via AWS and Yolo for object detection, incorporating computer vision and digital image processing techniques, boosting user engagement by **40%** through precise validation
- Enhanced object detection accuracy by **15%** in AR/VR/MR environments, ensuring precise object placement and superior user interaction
- Reduced report generation time by **70%** by automating the process using Python, and integrating detailed **HTML reports**, streamlining project transparency

Projects

Enhancing Image Classification

- Engineered and deployed sophisticated CNN, RNN, and ResNet architectures for a multifaceted image classification task across diverse datasets, achieving **93% accuracy** in a data science project

AI-Driven JobHarvest for Efficient Job Search with Profile Matching System

- Built JobHarvest, an AI-powered job scraping and resume-matching framework using **Selenium, LangChain GPT-4, and NLP**, automating job extraction and ranking across platforms, processing 1,000+ job listings per run
- Implemented an AI-driven resume matching system that analyzes job descriptions, calculates match percentage, identifies skills gaps, and provides resume tailoring recommendations, enhancing job search efficiency by 3x

Innovative Machine Learning Techniques for Obesity Prediction

- Achieved **96.22% accuracy** in obesity prediction using a machine learning model with Gradient Boosting by refining data preprocessing and feature engineering on the UCI dataset

Honors, Activities, and Volunteer Experience

- Delivered a well-received presentation on 'Accelerating Enterprise Drone Integration' at the Annual Software Testing Conference in Pune, India, in December 2022, reaching an audience of over 100 industry professionals
- Facilitated 6 successful hackathons as a Coders Club member, providing mentorship and technical assistance to participants, leading to the development of innovative solutions