HEMNATH

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Summary

AI and QA professional with 1+ years of experience in AI development, test automation, and software testing. Proficient in Python, Transformers, Selenium, and SQL. Experienced in CI/CD, model optimization, and US Healthcare domain testing. Strong in debugging, defect tracking, and ensuring software quality.

Education

Sri Ramakrishna Engineering College - BTech Artificial Intelligence & Data Science 2020 - 2024

Skills

Programming & Frameworks : Python, SQL, Git, TensorFlow, PyTorch, and Scikit-learn, ML,OCR
Data Processing & Feature Engineering: Skilled in NumPy, Pandas, OpenCV, NLTK, and SpaCy
Data Analytics & Visualization: Power BI, Data Analytics , MS Excel
AI & Automation: ChatGPT, Google Colab, Automation, Azure
Software Testing: Selenium, Manual, Regression, API Testing, JIRA, CI/CD Pipelines, TestNG, Jenkins

Experience

Associate Software Engineer in Test, HealthEdge – Hyderabad January 2024 – March 2025

- Contributed to testing of enterprise applications in the US Healthcare domain, with exposure to payer systems, claims workflows, and compliance processes.
- Performed manual and automated testing using Selenium; improved quality standards across functional, regression, and performance tests.
- Built robust automation frameworks and integrated them into CI/CD pipelines to streamline delivery and enhance test coverage.

AI Intern, RBG.AI – Coimbatore May 2023 – October 2023

- Developed and deployed deep learning models for Computer Vision and NLP using Python, TensorFlow, and OpenCV. Leveraged CNNs, RNNs, and Transformers to enhance model performance and accuracy.
- Integrated OCR for automated text extraction, streamlining data processing workflows.

Projects

Multimodal Depression Detection using ML

- Engineered an AI-powered multimodal system integrating text, audio, and video for enhanced depression detection. A fusion-based deep learning model using CNNs, NLP and speech analysis for high accuracy
- Optimized real-time feature extraction and preprocessing pipelines to enable scalable, efficient deployment.

Human Activity Recognition

- Engineered a real-time AI system for human action recognition using multi-sensor data and deep learning. CNN-based models designed for feature extraction, pattern recognition, and precise activity classification.
- Preprocessing pipelines to improve model adaptability, scalability & robustness across diverse environments.

Skincare Recommendation System

- Developed a web-based AI solution for personalized skincare recommendations using Python, LLMs, MobileNetV2, and GoogleNet. Integrated deep learning and computer vision to analyze age, skin type, and user preferences for tailored skincare suggestions.
- Built an interactive Streamlit interface, optimizing model performance and enhancing user experience.

Certification

- Artificial Intelligence Foundation – Nasscom FutureSkills
- Cybersecurity for AI – LTTS
- Security, Compliance, and Governance for AI Solutions – AWS
- Data Analytics Job Simulation – Deloitte