

NITISH ADGAONKAR

Machine Learning | Automation | GenAI

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SUMMARY

Results-driven data professional with 3+ years of experience in Python automation, machine learning, and software development. Skilled in building automation libraries, computer vision (OpenCV, pytesseract), and deploying ML models. Experienced in Generative AI and prompt engineering to extract insights from unstructured data. Proficient in Python, deep learning (TensorFlow, Keras), Azure, and Agile-based test automation (BDD, HIL, Keyword-Driven) in automotive domain.

PROFESSIONAL EXPERIENCE

TATA CONSULTANCY SERVICES

08/2022 – Present

System Engineer

PROJECT: Jaguar Land Rover - Software Update Over the Air.

- Designed and developed end-to-end Python automation libraries to streamline ECU software updates, integrating test execution, data validation, and result aggregation — significantly improving development cycle efficiency.
- Built a computer vision-based Python library using OpenCV and Tesseract OCR to automate infotainment screen validation. Implemented image comparison, icon detection, and text recognition pipelines for robust UI validation.
- Engineered structured features from unstructured ECU system logs and test data using Pandas and Scikit-learn. Applied prompt engineering and NLP techniques to convert raw logs into tabular datasets, enabling advanced analysis and real-time issue detection.
- Performed Exploratory Data Analysis (EDA) using Seaborn and Matplotlib to uncover insights from test results and failure patterns, helping improve testing strategies and anomaly detection processes.
- Executed large-scale automated tests on HIL (Hardware-in-the-Loop) systems, monitored overnight test logs, and deployed failure analysis workflows on cloud servers to ensure high system reliability and traceability.
- Developed behavior-driven testing scripts using Cucumber and Keyword-Driven Testing, aligning automated validation workflows with business logic and enhancing cross-functional collaboration.
- Developed and debugged a scripts for SOME/IP services used in ECU client/server communication.
- Continuously engaged with clients, and updated automation libraries according to the requirements received each quarter.
- Implemented Agile methodologies across the project lifecycle to enhance adaptability, collaboration, and efficiency.
- Provided training to new team members, and outlined the project workflow in details.

SKILLS

- Python , C++ , SQL , Object Oriented Programming.
- Data Structures and Algorithms , Microsoft Azure.
- Machine Learning, Deep Learning (TensorFlow, Keras).
- Exploratory Data Analysis (EDA), NLP, GenAI , Prompt Engineering.
- Test Automation (BDD Cucumber, Keyword-Driven Testing, HIL Testing).
- Agile Methodologies, Git, Jira, Confluence.

EDUCATION

- **Bachelor of Technology : Information Technology.**

MGM's Jawaharlal Nehru Engineering Collage.

06/2022

CGPA : 8.94

PROJECTS

- **Sentiment Analysis on Product Reviews .**

- Developed this project to analyze human sentiment in text-based formats, such as reviews and comments.
- Utilized the Amazon Reviews dataset to train the model using the Logistic Regression algorithm. Scraped reviews from an e- commerce website for testing, achieving an accuracy of 89%

- **Loan Payback Prediction.**

- Performed Exploratory Data Analysis (EDA) on the given dataset using Seaborn and pandas to gain a comprehensive understanding of the data.
- Developed and trained a Sequential model with 4 dense layers using the ReLU activation function, achieving an accuracy of 89%.

CERTIFICATIONS

- Microsoft Certified Azure Fundamentals AZ-900
- Google Cloud Certified Associate Cloud Engineer
- Microsoft Certified Power BI Data Analyst PL-300

HOBBIES

- Listening To Music
- Playing Chess
- Playing Cricket and Football