Contact

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Top Skills

Prompt Engineering

NumPy

Pandas (Software)

Certifications

Microsoft Certified: Azure
Fundamentals

Google Cloud Certified Associate
Cloud Engineer.

The Complete Data Structures and
Algorithms Course in Python

Nitish Adgaonkar

Machine Learning | GenAI | Agentic AI | Deep Learning | Automation
| Computer Vision
Aurangabad, Maharashtra, India

Summary

Results-driven data professional with over 3+ years of experience in
Python automation, machine learning, and GenAI, .

Skilled in designing and developing automation libraries, leveraging
computer vision (OpenCV, pytesseract), and implementing machine
learning models for real-world applications.

Strong expertise in Python, data structures, deep learning
(TensorFlow, Keras), and cloud technologies (Azure). Adept at Agile
methodologies, test automation (BDD, Keyword-Driven Testing), and
working with automotive systems.

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Experience

Tata Consultancy Services
System Engineer
August 2022 - Present (3 years)
Pune, Maharashtra, India

Automation and ML Engineer with hands-on experience in Python, Machine
Learning, OpenCV, and Generative AI. I apply OOP principles and solve real-
world problems daily, constantly learning and building smarter automation
solutions.

• Engineered end-to-end Python automation libraries to automate ECU
software update
functionalities, from test case execution to validation, enabling seamless
integration and
improved development workflows.
• Extracted infotainment screen images using the SCRCPY tool and integrated
them into the
automation workflow. Designed and developed a Python library that automated
infotainment

screen validation using OpenCV and pytesseract for image comparison, icon detection, and
optical character recognition (OCR).
• Engineered new features from ECU system logs and test results using Pandas and Scikit-learn,
enhancing test data visualization and enabling actionable insights through Exploratory Data
Analysis (EDA).
• Performed overnight executions on the HIL setup for specific ECU updates and monitored
automation logs to identify and resolve failures. Managed log storage and analysis on cloud
servers to ensure smooth and efficient testing operations.
• Developed automated test scripts using the Cucumber framework by applying BDD and
Keyword-Driven Testing, enhancing test reliability and aligning automation workflows with
business requirements.
• 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.

Education

M.G.M's Jawaharlal Nehru College of Engineering
Bachelor of Technology - BTech, Information Technology · (2018 - 2022)

Kulbhushan Junior College
HSC, Science · (July 2017 - May 2018)