Tinku Hore

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📞 9614929765

📍 Vill-Shatranjpatty, P.O.-Azimganj, Dist-Murshidabad, WB, PIN-742122

📅 18/11/1994

🚩 Indian

💍 Married

⚧ Male

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Objective

Dedicated Test Automation Engineer with a strong background in developing and executing automated test scripts using Selenium, JUnit, and Python. Seeking to leverage expertise in CI/CD pipelines, test planning, and execution to enhance software quality and streamline testing processes.

Skills

Full Stack Python Development ● ● ● ● ●

Data Structure & Algorithm ● ● ● ● ○

Test Automation Frameworks ● ● ● ● ○
Expert in building and managing test automation frameworks using Selenium, Appium, and Robot Framework.

Test Management Tools ● ● ● ● ○
JIRA, TestRail, Quality Center

Advanced Excel: VBA, Macros, Data Analysis ● ● ● ● ○
Advanced Excel user with strong skills in VBA programming and macro creation for process automation and efficiency improvement.

Testing Frameworks ● ● ● ● ○
JUnit, TestNG, pytest, NUnit, UnitTest

Exploratory Data Analysis ● ● ● ● ○
using Python

Data Visualization ● ● ● ○ ○
Using Matlab and Seaborn Library with Python

Macchine Learning ● ● ● ● ○
Linear Regression, Logistic Regression, Decision Tree, Random Forest, Boosting, PCA, KNN, Clustering

Deep Learning ● ● ● ○ ○
TensorFlow and Keras

Github ● ● ● ● ○
Repository, Git workflow, gitbash, git action

AWS ● ● ● ○ ○
S3 Bucket, ElasticBeanstalk, EC2

DBMS ● ● ● ● ○
MySQL, SQLlite3, MongoDB

Probability and Statistics ● ● ● ● ○

CI/CD ● ● ● ○ ○
Jenkins, GitLab CI

Projects

03/2024 – present

Throughput Automation Testing Tool
Project Summary:
Developed a comprehensive 'throughput automation' testing tool to reduce manual testing dependencies and enhance reliability.
Key Features:
- Utilizes Speedtest or iPerf for simultaneous DUT and REF testing.
- Generates detailed reports with network parameters (PCI, Band, BW, EArfcn, RSRS, RSRQ, RSSI, SNR, CQI, MIMO, BLER, MCS).
- Provides log parsing analysis for deeper insights.
Progress: Currently at 70% completion, with Phase 1 and Phase 2 development successfully executed and tested..
Tech Stack: PyQt5, regex, appium-python-client, npm, node.js, adb, pandas, openpyxl, selenium, UIAUTOMATOR
My Role: Software Architect, designed and developed the entire project (frontend, backend, and automation).

11/2023 – 02/2024

Automated Test Case Report Analyzer (QA)
Objective: Developed an Automated Test Case Analyzer to streamline report analysis, comparing current and previous project data to identify anomalies efficiently. Aimed to mitigate errors and accelerate the analysis process by replacing manual checks with automation.
Tech Stack:
- MySQL DBMS for structured data storage.
- Python tkinter for frontend.
- Python sqlite3, pandas for backend.
My Role: Led the development lifecycle, including Low-Level Design (LLD), High-Level Design (HLD), architecture, and design, as well as frontend and backend development. Conducted rigorous testing before deployment to ensure robustness and functionality.
Status: Completed and in use by QA team, yielding positive feedback and reduced escalations. Next phase to introduce advanced features underway.

08/2023 – 10/2023

Calling Automation Testing Tool for Pixel
1. Objective:
Automate the process of short and long call testing for Google Pixel devices. Reduce manual testing effort and improve test coverage.
Generate comprehensive reports with test results and key network parameters.
2. Tech Stack Used:
Full-stack Python development
Relevant libraries/frameworks (tikinter, threading, multiprocessing, regex)
Network performance monitoring tools (adb CLI)
3. My Role:
Led the development lifecycle, including Low-Level Design (LLD), High-Level Design (HLD), architecture, and design, as well as frontend and backend development. Conducted rigorous testing before deployment to ensure robustness and functionality.

| 12/2022 – 02/2023 | **Flight Fare Prediction,** *Internship Project at iNeuron.ai* ⎘ |

Objective: Using the Dataset of flight fares for different routes throughout the year, a Model is built and trained to predict the approx fare for any particular route.

Tools Used: Python Libraries, VSCode, Jupyter Notebook, GitHub and AWS.

Final Output: http://predictflightfare-env.eba-438dqfva.ap-south-1.elasticbeanstalk.com/

Roles & Responsibilities: EDA and FE, Model Building, Training Pipeline Building, Webpage Design, CI/CD Pipeline, and Deployment.

| 12/2022 – 01/2023 | **Sensor Component Failure Prediction** ⎘ |

The Air Pressure System (APS) is a critical truck system that generates pressurized air for functions such as braking and gear changes.

Objective: By analyzing the data, machine learning algorithms can identify patterns and predict failures before they occur, enabling maintenance crews to replace components and avoid costly breakdowns on the road proactively.

Tools used: Python Libraries, VSCode, Jupyter Notebook, Airflow (for batch prediction), sci-kit learn, GitHub, and AWS.

Final Output: The code is working fine locally. Free deployment in AWS is not possible since the data set is huge and system requirements are higher.

Roles and Responsibilities: Data Collection, EDA&FE, Model Building, training and prediction pipeline building, and Deployment.

Languages

| Python | ● ● ● ● ○ | Java | ● ● ● ○ ○ |
| C# | ● ● ● ○ ○ | | |

Education

2016	**B.Sc (Physics Hons.),** *St. Pauls' C.M. College, Kolkata*
2011 – 2012	**12th (80.5 %),** *Azimganj R.B.S.B. High School (H.S.)*
2009 – 2010	**10th (79%),** *Azimganj R.B.S.B. High School (H.S.)*

Certificates

- Full Stack Data Science Bootcamp ⎘
- SDET: Test Automation from scratch
- Prompt Engineering
- Unified Modeling Language (UML)

Professional Experience

| 07/2023 – present
Navi Mumbai, India | **Test Engineer (Automation),** *Marquis Technoligies Pvt Ltd*
Working as Full Stack Python developer and building Automation Tool that can be used for real-world device testing. |
| 2014 – present
Kolkata, India | **Math Teacher,** *Self Employed*
I've experience in Teaching Mathematics to mainly students of Class 11 and 12. |