

ABHIJIT PAUL

LEAD AUTOMATION ENGINEER



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ABOUT ME

With 12+ years in BFS domain as a Python Test Automation Developer and a recent focus on machine learning, I bring a rich blend of data analysis, automation expertise, and innovative solutions to excel as a Python Practitioner.

EDUCATION

B.TECH - IT

BMIT [R.T.U], Jaipur / Jaipur / 2012

First Class Honors - 8.2 CGPA

SKILLS

Python

Selenium, Robotframework, Playwright

UnitTest, Pytest

UI Automation, API Automation

Machine Learning

AWS

SQL

Sklearn, Pandas, Numpy

Code coverage

Coordinating

Leading

Troubleshooting

LINK

Portfolio:

<https://abhijit-ai.netlify.app/>

CERTIFICATIONS

ISTQB ADVANCED LEVEL - TEST ANALYST

CERTIFIED SCRUM MASTER

NCFM FINANCIAL MARKETS

COURSE

FULL STACK DATA SCIENCE MASTERS

iNeuron

Mar 2024

WORK EXPERIENCE

Genpact

Dec 2024 - Present
Pune

Trading Technologies

Sep 2021 - Dec 2024
Pune

FIS

Feb 2015 - Aug 2021
Pune

Bank of New York Mellon

Dec 2012 - Jan 2015
Pune

SENIOR PRINCIPAL CONSULTANT

Project: Everest Data Orchestration (Macquarie)

- Worked on a project for enhancing E2E Data Pipeline Project as a Principal Test Automation resource.
- Developed test automation framework using Robotframework along with tools such as Pyspark, Pandas, Docker, Argo-Workflow, Data-Pipeline Orchestration.

SENIOR SDET (TEAM LEAD)

Project: TT Web (Derivative exchange trading platform)

- Led the automation strategy development and scope definition for TT Web, an innovative derivatives exchange trading platform.
- Developed & Enhanced Python (Pytest) based Test Automation Framework for both Web-UI & API features
- Oversaw task allocation and team leadership, ensuring timely achievement of project milestones.
- Enhanced automation scripts for better readability, maintainability, and performance.
- Streamlined Jenkins CI/CD pipelines to boost testing and deployment efficiency.
- Mentored a team of 2-3 SDETs, promoting career development and technical prowess.

Project: TT Trade Surveillance

- Collaborated with the Development team on the TT Trade Surveillance project to create and validate machine learning models for diverse applications, such as identify patterns indicative of market manipulation.
- Conducted rigorous testing and performance validation of ML models to ensure reliable detection of suspicious trading behavior and compliance violations.

LEAD TEST AUTOMATION ENGINEER

Project: Apex Securities Finance (Agile Development)

- Spearheaded the transition from VBScript to Python, enhancing the automation infrastructure for Apex Securities Finance within an Agile framework.
- Developed and implemented Pytest and BDD frameworks to elevate test automation capabilities.
- Crafted comprehensive Pytest suites for efficient regression and sanity testing.
- Engineered Jenkins pipelines to facilitate robust CI/CD practices for test automation.
- Conducted ETL testing to ensure exact, consistent, and reliable data generation across tables.
- Led and mentored a team of 5 QA professionals, fostering a culture of high performance and exceptional quality.
- Acted as Scrum Master, orchestrating daily stand-ups, scrum-of-scrums, sprint reviews, and retrospectives to ensure seamless Agile operations.

QUALITY ANALYST

Project: Broker Dealer Services (Waterfall Development)

- Spearheaded the development of VB Script automation scripts, boosting efficiency in the Broker Dealer Services project.
- Oversaw Daily Sanity and Monthly Regression testing, maintaining system reliability and peak performance.
- Conducted thorough ETL testing to ensure the precision and integrity of essential pricing and rating data feeds.

INTERNSHIP ML PROJECTS

CREDIT CARD DEFAULTS PREDICTION

Tech Stack: Python, Statistics, Machine Learning, MLFlow, AWS

- The model aims to predict default payments based on various demographic and credit-related features.
- Designed XGBClassifier model with an Accuracy: 83%, ROC-AUC: 91%, Precision: 84%, F1: 81%

CLIENT RATING PREDICTION

Tech Stack: Python, Statistics, Machine Learning, MLFlow, AWS ECS, DagsHub

- The model aims to predict ratings of restaurant based on various demographic and restaurant-customer-related features
- Designed RandomForestRegressor along with tuning its Hyperparameters having model with an R2 Score: 83%

BLOGVERSE

Tech Stack: Python, MongoDB, HTML, CSS, Flask, Jinja2, AWS

- This is a Blog Creator Web Application project aimed at facilitating users to showcase their contents, thoughts, skills in the form of Blogs.
- This project utilizes Web Development using Python technology and data is stored in NoSQL cloud server pertaining CRUD operations deployed on AWS