Abhijit Paul

Lead SDET
Pursuing Data Science & Machine Learning

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PROFILE

I have **1+ years** of internship experience in the **Data Science** domain with a proven ability and history of developing full-stack data science projects.

Hands-on experience leveraging machine learning, deep learning, and transfer learning models to solve challenging business problems.

Overall, **11+ years** of work experience in the Software Test Automation development domain.

EDUCATION

iNeuron Intelligence, Bengaluru— *Full Stack Data Science Masters*

Nov 2022 - Till date

- Pursuing theoretical and practical hands-on solving real time business cases using Machine Learning models.
- Successfully deployed and managed applications on Amazon Web Services (AWS) using various services, including Elastic Beanstalk, ECS, and App Runner.
- Utilized Elastic Beanstalk for streamlined deployment and management of web applications, ensuring scalability, reliability, and security.
- Implemented containerized solutions using ECS, optimizing resource utilization and improving the overall performance of microservices-based applications.

BMIT [R.T.U], Jaipur — *B.Tech - IT*

Aug 2008 - Jul 2012
First Class Honors – 8.2 CGPA

KEY SKILLS

Programming Language

Python

Statistics/ML

Linear/Logistic Regression, Regularizations, Ensemble Trees, Gradient Boosted trees, Hyper-Parameter Tuning

Machine Learning

scikit learn, Pandas , Numpy, Seaborn, Matplotlib

Cloud Platforms

Amazon Web Services

Deployment Services

Elastic Beanstalk, ECS, ECR, App Runner

Mlops

Docker, DVC, ML Flow, DagsHub

Database

MySQL, MongoDB, SQL queries

Scripting and Automation

Selenium, Python, RestfulAPI, Pytest, unittest, Flask

Version Control

Git, GitHub

KEY DATA SCIENCE PROJECTS

Domain — *Private Equity*

Tech Stack: *Python| Sep'23*

- Objective: Clients are facing issues as their Investors are churning out.
- Designed Logistic Decision Tree model to predict sectors, countries, region, companies etc of churned customers.
- Key Achievement: Created a model with an **AUC score of 0.85** registering the experiments using MLFlow and uploading on DagsHub for prediction reproducibility.
- Deployed project in AWS - ECS and AWS AppRunner using Dockerization.

Domain — *Manufacturing*

Tech Stack: *Python| Jul'23*

- Objective: Company wants to create software so that customers do not have to depend on Remote for basic actions.
- Solution: Created a model that identifies gestures of User to control the TV without using remote using techniques like decreasing block size with depth, batch norm, drop out and LR reduction.
- Key Achievement: **Model Accuracy was >=55%**
- Registered the experiments using MLFlow and uploading on DagsHub for prediction reproducibility.

Domain — *Social Networking*

Tech Stack: *Python| Mar'23*

- Objective: To create a web application to facilitate the blog creation capabilities deployed on cloud server.
- Solution: Created a Full stack web application using Flask managing data in MongoDB that facilitates users to showcase their contents, thoughts, skills in the form of Blogs.
- Key Features:

  * CRUD operations - Create Blog, Read Blog, Update Blog, Delete Blog.

  * Secured authentication for each user provides an extra

CI/CD

GitHub Actions, Jenkins, AWS CodePipeline

Web Development

Flask

Communication

Strong verbal and written communications skills

Problem Solving

Analytical thinking and creative problem-solving skills

Project Delivery

Team Coordination & Leadership

Process Improvement

DOMAIN

OTC Trading

Collateral Management

SWIFT/FIX messaging

Securities Lending and Borrowing

CERTIFICATIONS

Full Stack Data Science - iNeuron

ISTQB Foundation & Advanced

Certified Scrum Master

Certified Kanban Practitioner

NCFM certifications

level of security.

* Providing an option to put comments as well as Ratings on blogs posted by other users.

PROFESSIONAL EXPERIENCE

Trading Technologies, Pune— *SDET-2 (Tech Lead)*
Sep 2021 - PRESENT

Project: TT Web (Derivative exchange trading platform)

- Analyzing the efforts to automate required product features and functionalities.
- Identifying web elements followed by creating reusable functions and test scripts.
- Handling regression of TTW suite across various environments prior to bi-monthly releases.
- Optimizing the code to enhance readability, maintainability, and performance
- Handling failed scripts and reporting regression bugs when found.
- Automated deployment processes and improved infrastructure as code practices, leading to a 25% reduction in manual errors and a more reliable deployment pipeline.
- Implemented continuous integration and continuous deployment (CI/CD) pipelines to automate the testing and deployment of applications, resulting in faster releases and improved development workflows.
- Handling queries of team members.
- Conducting knowledge-sharing sessions.

FIS, Pune— Test *Automation Engineer*
Feb 2015 - Aug 2021

Project: Apex Securities Finance (Agile Development)

- Using Maven test management framework for dependency, plug-in management and build automation.
- Creating Page Objects, reusable functions, and test scripts.
- Using locators to uniquely identify static and dynamic web elements.
- Creating test suites using TestNG/Pytest for regression and sanity.
- CI using Jenkins & Jenkins Pipelines.
- Handling multiple clients at the same time & managing the Testing Framework for each client.
- Identification of Workflow to be automated from the manual test suites.
- Converting manual Business components to Automated components and creating the End to End business processing testing flow for the tests.

- Updating the existing Regression suite & adding new test flows.
- Test Data preparation.
- Peer Code Review using Crucible.
- Incorporating exception handling to handle smooth test execution.
- Optimizing the code to enhance readability, maintainability, and performance.
- Conducting knowledge sharing sessions with other team members.

Bank of New York, Pune— *QA Engineer*

Dec 2012 - Jan 2015

Project: Broker Dealer Services (Waterfall Development)

- Creating QTP test scripts for the regression suite and maintaining the test framework.
- Modifying/adding new automated scripts as per new features.
- Perform Daily Sanity.
- Executing the Regression suite in a timely manner.
- Perform ETL testing for pricing and rating feeds were the major areas of testing "mappings" and "workflows" with the required business logic.