

Jaswinder Singh

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Summary

Software QA Engineer with 1 year of experience in the tech industry, specializing in data transformation and analysis. Proven track record in enhancing system reliability for Cisco's CX cloud portal using automation testing tools and performing satellite image analysis for ISRO. Proficient in Python, SQL, and data visualization

Education

World Quant University

Master of Science in Financial Engineering

Mar 2024 - Present

Poornima University

Bachelor of Technology in Computer Engineering

Aug 2016 - Jun 2020

Work Experience

Cisco

Bangalore

Test Automation Engineer

Aug 2021 - Aug 2022

- Led a team of four to enhance the company's CX cloud portal within an agile environment, improving team collaboration and project efficiency.
- Crafted effective test cases for API and web testing, and submitted pull requests via Git, ensuring code quality and functionality.
- Utilized automation testing tools such as Cypress and Selenium, incorporating QA automation protocols to streamline testing processes and ensure product quality.
- Identified and resolved performance bottlenecks in the CX cloud portal, enhancing system reliability by focusing on bug fixing and optimizing application functions

ISRO

Ahmedabad

Trainee Research Development

Jan 2020 - Jul 2020

- Analyzed satellite images to display the land surface temperature of the Indian region using the HDF5 library with Python, data analysis techniques, and programming to uncover trends and anomalies.
- Implemented NumPy for numerical computations and array operations, enhancing the accuracy and reliability of land surface temperature analysis.
- Collaborated with the team to interpret data and effectively communicate findings through data visualizations, applying QA principles to ensure data quality.
- Assisted in data cleansing and transformation, ensuring accuracy and reliability of analyzed satellite imagery by managing and verifying database inputs.

Projects

Human Expression Classification

- Successfully achieved a robust 60% validation accuracy, utilizing advanced techniques to classify images containing human faces.
- Employed Convolutional Neural Networks to attain an impressive 40% accuracy in accurately recognizing and classifying the seven fundamental human expressions from the images.

Option Pricing using Black Scholes and Binomial Tree Model

- Designed Applied BS & BT models to price option, achieving a 0.18% average price difference and integrated Alpha Vantage open API for real-time data fetching and analysis.
- Calculated key risk metrics, implied volatility and designed interactive plots using bokeh with hover tool for detailed data exploration.

Bitcoin Historical Analysis

- Engineered robust Python data pipeline for data cleaning, transformation and feature engineering streamlining analysis.
- Conducted Bitcoin market analysis utilizing 14+ years of historical data to identify key price trends and volatility patterns.

Skills

SQL, MySQL, Selenium, Python, Pandas, OOP, Git, NumPy, JIRA, Pivot Tables, Excel, Power BI, Data Analysis, Data Visualization, Statistics, Data Science, Learning Enthusiasm, Data Transformation, Postman, Application Functions, Script Languages, QA Automation, Programming, Bug Fixing, Test Automation, APIs

Certifications

- Oracle Cloud Infrastructure 2023 Data Science Professional: Data Science, Machine Learning