

ADITHYA SWARNA

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Education

UNIVERSITY OF CALIFORNIA, RIVERSIDE
Master of Science in Computer Engineering

Expected Graduation: **December 2024**

INSTITUTE OF AERONAUTICAL ENGINEERING
Bachelor of Technology in Electronics and Communication Engineering
8.48 with First Class Distinction

September 2020

Skills

Technical: Python, ML Libraries, Selenium, C/C++, Java, PLSQL, HTML, CSS, Fast Formulas, VHDL, x86.
Software: GIT, Microsoft Office, Oracle HCM, Cadence, Arduino, Lab VIEW, MATLAB, Proteus.
Operating Systems: Windows, Mac, Linux.

Projects

SpaceX Falcon 9 Landing Prediction

- Performed EDA on SpaceX launch data using Python, SQL; built interactive Matplotlib, Folium map and Plotly dashboard to visualize key metrics.
- Trained classification models including Logistic Regression, SVM, Decision Trees using Scikit-Learn.
- Achieved 87% accuracy in predicting successful rocket landing outcomes with Decision Tree model. Identified optimal launch sites and payload mass ranges for highest success rate through analysis.
- Prepared a complete presentation on project.

Stock Market Data Analysis

- Extracted large historical stock datasets using yfinance API and Beautiful Soup in Python.
- Cleaned, processed, and analyzed data using Pandas and NumPy libraries.
- Visualized key stock metrics with Plotly.

House Sales and Airline Performance Data Analysis

- Performed exploratory data analysis on housing and airline performance datasets using Python; identified trends and relationships between attributes through statistical analysis and data visualizations.

Selenium Automation

- Developed automation scripts using Python and Selenium to perform web scraping and system tasks including verifying receipt of TCS offer letter.

EXPERIENCE

TATA Consultancy Services (TCS)

Hyderabad, Telangana, India

Systems Engineer – Oracle HCM Techno Functional Consultant

January 2021 – July 2023 (2 Years 7 Months)

- Configured and implemented Oracle HCM modules (Core HR, Absence Management, and Time & Labor) through development, customization and integration enabling successful migration and reduced implementation time.
- Developed Oracle SQL scripts and procedures to enhance reporting and analytics for HCM modules, improving business insights.
- Provided L2 and L3 support for HCM Cloud by resolving issues and documenting knowledge base, improving uptime and turnaround time.
- Conducted virtual training and demos for end users by creating materials and giving presentations, ensuring successful adoption and increased productivity.
- Consistently delivered under tight deadlines and swiftly adapted to changing requirements; earned multiple commendations and promotion from Assistant to Systems Engineer.

CERTIFICATIONS

Algorithms Course in Python (Udemy). In Progress.
Data Science Bootcamp (PW Skills). In Progress.
IBM Data Science on Coursera. [Certificate link](#)
Programming for Everybody. [Certificate link](#).

Python Data Structures. [Certificate link](#).
Using Python to Access Web Data. [Certificate link](#).
Using Databases with Python. [Certificate link](#).

OTHER ACTIVITIES

1. Published and presented innovative CAM research at IEEE INOCON 2020 as lead author ([Paper Link](#)).
2. Developed a hardware-software system to detect LPG gas leakage and alert authorities using GSM technology.
3. Assisted with Diversity & Inclusion workshops, charity fund raising activities and participated in Inter College Volley-Ball tournaments.