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** **September 2020**

8.48 with First Class Distinction

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](https://www.coursera.org/account/accomplishments/professional-cert/2AL2QRQ9GDFX)

Programming for Everybody. [Certificate link](https://www.coursera.org/account/accomplishments/verify/ZJTT3HJLYDMC).

Python Data Structures. [Certificate link](https://www.coursera.org/account/accomplishments/verify/9JYZ462488F8).

Using Python to Access Web Data. [Certificate link](https://www.coursera.org/account/accomplishments/verify/34QL4JUDJ4MQ).

Using Databases with Python. [Certificate link](https://www.coursera.org/account/accomplishments/verify/77ZAGJ2MQ6ET).

Other activities

1. Published and presented innovative CAM research at IEEE INOCON 2020 as lead author ([Paper Link](https://ieeexplore.ieee.org/document/9298389)).
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.