TARAVAT SHARAFAT

San Jose, CA 95134
Phone: (832) 612 - 7319 | **Email:** taravatsharafat97@gmail.com
LinkedIn: https://www.linkedin.com/in/taravats | **GitHub:** https://github.com/Taravatsh |
Portfolio: https://taravatsh.github.io/Portfolio/

SUMMARY

A determined Data Analyst with a certificate in Data Analytics and Visualization from the University of California, Berkeley Extension Boot Camp. Skilled in Microsoft Office, VBA, Python, Pandas, SQLAlchemy, JavaScript, HTML, Tableau as well as SQL and NoSQL (PostgreSQL, MongoDB) databases. Highly skilled as an Aeronautical Engineer in development, research, analyzing and solving engineering problems both theoretically and through engineering tools and IT software. Have recently completed a project in a team of four using a dataset from kaggle, and CA Gov along with knowledge of Python, Machine Learning, PostgreSQL and Tableau in analyzing impacts, causes and trends of wildfires between 2013-2019. Led a core team of five where successful construction and operation of a radio-controlled solar power aircraft was achieved. Excel in leading teams and collaborating with a diverse group of individuals. Looking forward to fulfilling a company's goal by implementing my innovative and strategic thinking abilities in exciting projects.

TECHNICAL SKILLS

Languages: Python, JavaScript, R, SQL, NoSQL, HTML, VBA

Applications: MongoDB, PostgreSQL, GitHub, Flask, Tableau

Data Manipulation and Visualization: Pandas, Matplotlib, Leaflet.js, D3.js, BeautifulSoup, GeoJSON, Scikit learn, Tensorflow, Jupyter Notebook, Google Colaboratory

Engineering Tools: ANSYS, MATLAB, AutoCAD, SolidWorks

IT Software: Microsoft Word, Microsoft Excel, Microsoft PowerPoint

DATA ANALYTICS PROJECTS

California Wildfires |Link to Github [https://github.com/dhivyapadmanaban/California_Wildfires]

This project showcased creating an interactive dashboard to explore the dataset of California Wildfires by creating visuals that helped in telling the data story as well as building a machine learning model for predicting the severity of the wildfire in the upcoming years.

- Role: Cleaning and preparing the dataset for completing the initial analysis using Python libraries. Using database integration for storing the cleaned data as well as creating a machine learning model for making predictions. Creating a dashboard for presenting results of analysis.
- Tools: Python, PostgreSQL, Tableau.

Belly Button Biodiversity |Link to Github [https://taravatsh.github.io/Belly-Button-Biodiversity/]

This project showcased creating a website with an interactive dashboard to explore the dataset of bacterial species living on individuals' belly buttons.

- Role: Building the dashboard of the website by creating engaging and dynamic charts that display the bacterial data for each volunteer by simply allowing the participants to select their ID numbers to be able to view the data.
- Tools: JavaScript, Plotly, D3.js.

ENGINEERING PROJECT

Design, Construction and Operation of a Long-range Solar Powered aircraft
| Link to Project [https://drive.google.com/file/d/1BxIST5WyJGdCBzlhk2hZN2l4cLzcSpnD/view]

The purpose of this project was to design, analyze, construct and operate a solar powered radio controlled aircraft by harvesting the sun's energy through photovoltaic cells placed on aircraft wings to absorb the sun rays and convert the energy into electrical current.

- Role: Visualizing the flow fields and determining the aerodynamic properties of the aircraft and analyzing the structural integrity of the entire aircraft model.
- Tools: ANSYS, SolidWorks.

EXPERIENCE

Tesla **10/2020 - 05/2021**
Production Associate *Fremont, CA*

- Assembled the door components of Tesla Model 3 vehicles in a team of ten with two individuals in each station working on front and rear doors and hitting the production target of assembling about 300 doors per shift.
- Ensured that the components were assembled correctly in previous stations through testing devices.
- Successfully performed a detailed quality check as a detailed-oriented individual ensuring the assembled components were free from any defects before passing them to the robots and the quality control station.

Emirates Engineering **06/2018 - 07/2018**
Trainee *Dubai, UAE*

- Performed automatic eddy current testing for inspecting the aircraft wheels and brakes of both Boeing and Airbus series in the wheels and brakes workshop in a team of three.
- Successfully tested, repaired and overhauled the aircraft engines in the engine workshop in a team of five.
- Effectively improved the appearance and functionality of all the interior soft furnishings, seats and safety equipment of the Emirates fleet by almost 90%.

EDUCATION

Certificate, Data Analytics and Visualization: University of California Berkeley Extension, Berkeley, CA

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

BSc. Aeronautical Engineering: Emirates Aviation University, Dubai, UAE

A four year degree designed in line with international quality standards. It covers the four classical areas of aerospace vehicle design; namely: aerodynamics; structures, propulsion, and flight stability and control.