AMRUTA JADHAV

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EDUCATION

University of Washington   **Seattle, WA**
MS in Information Management (Data Science and Business Intelligence) | GPA: 3.90/4.00   **Expected: June 2022**
Coursework: Data Science I - Theoretical Foundations, Data Science II - Machine Learning & Econometrics, Relational Database Management Systems, Business Intelligence Systems, Management and Strategic Leadership

College of Engineering Pune   **Pune, India**
Bachelor of Technology in Civil Engineering | GPA: 7.80/10.00   **August 2014 - June 2017**

Additional Coursework - CS101 Introduction to Programming - Stanford Online**,** Data Structures and Algorithms - Udemy

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, C#, HTML, CSS, JavaScript
Tools and Technologies: Tableau, Jupyter, Power BI, MongoDB, Git, Flask, REST APIs, and Excel
Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, ggplot2, dplyr

INDUSTRIAL PROJECT

Microsoft Azure Carbon Intelligent API – (UW-Microsoft Partnership)   **Jan 2021 – Present**
- In collaboration with Microsoft, and a UW team of 5 people, developed a set of web APIs that will allow Azure customers to intelligently shift their workloads to different datacenters to reduce carbon emission
- Used Python Flask web framework to create REST APIs and documented them using Swagger

PROJECTS

Rainfall prediction using ML models   **Jan 2021 - March 2021**
- Built ML models to predict if it will rain or not in the popular vacation destinations in the USA
- Collected the historical weather data (having over 39000 observations and 75 columns) from NOAA website and prepared the data for training and testing using Python
- Used the ML algorithms like classification, kNN and random forest to get rainfall predictions

Bookstore database design   **Jan 2021 - March 2021**
- Prepared the conceptual design of the database to show 20 entities, their attributes, and relationships using lucid chart
- Revised the ERD by implementing subtype and supertype entities to ensure the database is normalized
- Built the database using MS SQL Server and added business rules and stored procedures with transaction control and error handling to maintain data integrity

Presidential Election 2020 Analysis   **Dec 2020**
- Analyzed the 2020 presidential election data to know county-wise voters' turnout, county-wise win and percent votes received by presidential candidates
- Examined the data and prepared it for analysis by cleaning and transforming it using R packages like dplyr and stringr
- Presented the results of the analysis on the choropleth maps using usmap and ggplot2 libraries

End-to-end Instagram-like Web Application (MERN Stack)   **Jan 2020 - March 2020**
- Defined the database schemas for data storage into MongoDB and created REST APIs to enable clean data transfer between the frontend and the backend
- Developed the frontend as a React Web App, which included features like signup, sign in, feed, add-post, like, comment, follow & unfollow users, etc.

Scraping and Analyzing basketball statistics   **Oct 2019 – Nov 2019**
- Scrapped the statistics of the basketball players from Wikipedia to convert it into a Pandas data frame.
- Performed analysis of the data using Pandas, NumPy, and matplotlib and stored the results on the IBM cloud

WORK EXPERIENCE

Kumkang Kind India Pvt Ltd, India - Design Engineer   **July 2017 - December 2018**
- Designed Aluminum formwork systems for 15+ residential buildings (over 4000 sq meters) using AutoCAD in a fast-paced and collaborative environment
- Analyzed specifications and requirements from multiple sources to create most efficient designs
- Guided two new hires in their ramp-up of understanding the formwork designing process

Walter P Moore, India – Summer Intern   **June 2016 – July 2016**
- Worked on projects involving land and site development, utility system, drainage studies and streetscape improvements

EXTRA-CURRICULAR

Bhau Institute Entrepreneurship Club - Core team member   **August 2015 – May 2017**
- Handled the relations with Eaton India and obtained the sponsorship of 1.4M Indian rupees from them for the entrepreneurship project competition in the year 2016
- Communicated project guidelines to over 1000 participants, assigned budgets to their projects and evaluated these projects for the competition