Jeronimo Dcosta

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PROFESSIONAL EXPERIENCE:

Utah Climate Center (Software Development Engineer)   Logan, Utah | October to Present

- Developed a program using **Beautiful Soup** to **automate data ingestion** of hourly weather data from the National Centers for Environmental Prediction website. This program **dropped time spent** at data download by **55%.**
- Created a system to push metadata of the downloaded data to a **PostgreSQL** database to avoid data inconsistencies. **Reduced** duplicate data downloads **by 100%.**
- Automated the entire **ETL** workflow - data download, extraction of **NetCDF** from **Grib2,** adding new fields to the NetCDF by reusing previously built software and creating charts using **Tableau/HighCharts.**
- Used these charts to **forecast** the Inversion and evapotranspiration with an **accuracy of 74%.**

ASPIRE Research Assistant (Graduate Research Assistant)   Logan, Utah | March to October 2021

- Explored and analyzed Electric vehicle datasets using **Pandas**, Preprocessed data and created visualizations (**Matplotlib**, **Tableau**) for EV datasets to get insights to create **Qualtrics** surveys.
- Researched Electric vehicle journals to understand consumer perception towards Electric Vehicle's. Created written documents summarizing the work done in 437 research papers to find out the current gaps in research.
- Collected nationwide data using **Qualtrics** surveys, analyzed the new dataset applying sentiment analysis (**NLP**) to understand the role marketing messages play in the adoption of Electric vehicles.

eClinicalWorks (Software Development Engineer)   Mumbai, India | July 2018 to December 2020

- Provided a **POC** for a fraud detection model to prevent claim-based fraud. Developed a ML model (**Logistic Regression**) to detect anomalies using historical data and trends of a practice.
- Worked with the web development team in an **AGILE** environment to build an **HL7** and **HIPPA** compliant EMR application for multiple web browsers (Chrome, Internet Explorer, Mozilla Firefox and Safari) using **Node.js**, **HTML**, **CSS**, **JavaScript** using a **PostgreSQL** database.
- Created S3 buckets in the AWS environment to store files, implemented S3 versioning and life cycle policies.

ACADEMICS

Master of Management Information System   Logan, Utah | May 2022
Utah State University – Jon M. Huntsman School of Business
Bachelor of Management Studies   Mumbai, India | April 2017
University of Mumbai

INTERESTING PROJECTS

Project Management System   **Python, Django, JavaScript, HTML, CSS, Heroku**
Built a Project Management System for a construction company to keep track of open and closed projects. Included an employee management system within the application.
GUI Chatbot   **Python, NLTK, Tkinter**
Created a Chatbot with Python and Natural Language Processing.

TECHNICAL SKILLS

Programming Languages & Frameworks: Python 3.9 (Pandas • Natural Language Processing NLP • NLTK • Django • Beautiful Soup • Matplotlib), Node.js (Express), JavaScript, HTML, CSS
Databases: PostgreSQL • MYSQL • Oracle • NOSQL
Technology: Amazon Web Services (Cloud9 • Amplify • RDS), Git, Heroku, Tableau, JIRA, Linux, Unix, Windows