

Maureen Herbert

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TECHNICAL SKILLS

Languages: R, Python, MySQL, PostgreSQL, JavaScript, HTML/CSS, LaTeX

Frameworks: Pytorch, Apache Spark, Apache Hadoop, Flask, Node.js, Bootstrap, RestAPI

Developer Tools: Tableau, Git, Docker, AWS, VS Code, PyCharm, Jupyter, Google Collab, DBeaver

Libraries: pandas, NumPy, Matplotlib, keras, scikit-learn, seaborn, nltk

Other: Research Writing, Technical Writing, Organization, Leadership, Creativity, Adaptability

EXPERIENCE

Data Warehouse and Engineering - Programmer Analyst

Feb. 2022 – Jul. 2022

Pando

Chennai, India

- Collaborated with a team of 5 to migrate the entire data warehouse from PostgreSQL to Redshift in 5 days, achieving faster parallel processing and query optimization.
- Implemented an ETL pipeline for logistics data using Python, PostgreSQL, and AWS, enabling efficient data transfer and transformation
- Automated reporting scripts and integrated the client API with the data warehouse, streamlining data access and reporting processes.

Research and Development Engineer

Jul. 2021 – Dec. 2022

Teknuance Info Solutions

Chennai, India

- Analyzed product requirements to identify Machine Learning (ML) use cases, ensuring alignment with business needs
- Accelerated the data science pipeline by conducting comprehensive research and analysis on the comparison of ML algorithms, utilizing open source libraries such as scikit-learn and Keras.
- Resulted in the selection of optimal algorithms for superior model performance and effective communication with developers and stakeholders, ultimately saving time in the development cycle
- Developed automated data visualization tools using Python, MySQL, ggplot, seaborn, and Matplotlib, enhancing data-driven decision-making capabilities

INTERNSHIPS

Research and Development Intern

Jul. 2020 – Dec. 2020

Teknuance Info Solutions

Chennai, India

- Conducted market research using Python, leveraging data analysis and visualization with Matplotlib to extract insights and inform strategic decisions. Actively participated in product demos, showcasing data-driven findings to stakeholders.

Python Developer Intern

Jan. 2019

Technosoft Global Solutions

Chennai, India

- Developed a Python-based chatbot using Natural Language Processing techniques in Python and NLTK to assist insurance callers in resolving medical health insurance queries, improving customer support efficiency

VOLUNTEER EXPERIENCE

President of the Rotaract Club of LICET

Jul. 2019 – May. 2020

Loyola- ICAM College of Engineering and Technology

Chennai, India

- Managed a club of 100 members with a committee of 15 members, successfully conducting over 20 events including, personal development workshops, fundraisers and blood and stem cell donation awareness campaigns for members of the club and university students

EDUCATION

Simon Fraser University

Burnaby, Canada

Masters in Professional Computing Science - Big Data

Sept. 2023 – Present

Loyola-ICAM College of Engineering and Technology

Chennai, India

Bachelor of Engineering in Computer Science and Engineering

Jul. 2016 – Sept. 2020

PROJECTS

Global Mental Health Initiatives: Big Data Analysis

Spark, ChartJS, Cassandra, pandas, NumPy

Sept 2023 – Present

- Conducted global mental health initiative analysis, comparing it with social media stigma trends over time. Employed Unsupervised Machine Learning and Sentiment Analysis on Twitter data. Performed data wrangling and EDA on structured data from public health sources spanning two decades, presenting results on a website with visualizations.

Data Science for Marketing

Python, Tableau

Feb 2023 - March. 2023

- Utilized Python for the analysis of Fitbit usage data to execute customer segmentation, and harnessed social media data analysis to predict trends, benefiting Bellabeat's Marketing Team. This project was undertaken as part of the Google Data Analytics program.

Water Conservation - Data Science for Social Good

Python, scikit-learn

Sept. 2022 – Oct. 2022

- Conducted comprehensive data analysis of India's water consumption data, creating interactive visualizations to effectively raise awareness of the critical water scarcity issue in the country
- Developed an ML model to predict water consumption trends

Voice Activated Text Editor with ML based Text Summarization

Python, NLTK, Keras

Jan. 2019 – May 2020

- Designed and Developed A text editor controlled by voice-activated commands enabled with voice typing, speech-to-text, and text-to-speech features. Summary of text files produced using machine learning-based text summarization techniques. using Python, Tensorflow, NLP, ML and front end using the python Tkinter library.