

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

EXPERIENCE

Data Warehouse and Engineering - Programmer Analyst

Feb. 2022 – Jul. 2022

Pando

Chennai, India

- Implemented ETL processes with Python, PostgreSQL, and AWS for data transfer and transformation into the data warehouse
- Optimized Query execution using PostgreSQL
- Developed reporting scripts, minor product enhancements, integration of client API with the data warehouse and the backend infrastructure, and streamlined routine data warehouse maintenance tasks
- Utilized Git for version control to track changes and facilitate team collaboration in code and configuration management

Research and Development Engineer

Jul. 2021 – Dec. 2022

Teknuance Info Solutions

Chennai, India

- Conducted analysis of product requirements to identify Machine Learning (ML) use cases, aligning data science solutions with precise business needs
- Researched, evaluated, and compared ML algorithms for identified use cases, selecting optimal algorithms for superior model performance and communicated results to developers and stakeholders
- Leveraged open source ML libraries, including scikit-learn and Keras, to design and implement ML models in adherence to product requirements.
- Developed automated data visualization tools utilizing 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

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

Water Conservation - Data Science for Social Good | *Python, scikit-learn* Sept. 2021 – Oct. 2021

- 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.

Data Science for Marketing | *Python, Tableau* Aug. 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.