ANN MARY THOMAS

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Portfolio: https://ann-mary-thomas.github.io/

Professional Summary

Data Analyst with a strong foundation in data analytics, machine learning, and business intelligence. Experienced in developing end-to-end analytics solutions using Python, Power BI, SQL, and Excel. Passionate about deriving actionable insights from complex datasets to support strategic decision-making. Adept at cross-functional collaboration and research-driven analysis.

Key Skills

• Data Analysis & Visualization (Power BI, Python, Excel, SQL)
• Machine Learning & Predictive Modeling
• Time-Series Forecasting (LSTM, RNN, RBM+NN)
• Statistical Analysis (Pandas, NumPy, SciPy)
• Business Intelligence Dashboards
• Database Management & Data Cleansing
• Research Writing and Academic Publications
• GitHub Portfolio Management & Project Documentation

Professional Experience

Research Analyst Assistant – London Metropolitan University | Feb 2025 – Jun 2025
MSc Data Analytics – Thesis Project
• Contributed to MSc thesis project forecasting electricity demand and CO_2 emissions in the U.S. power sector.
• Implemented LSTM, RNN, and RBM+NN models for accurate prediction.
• Conducted data wrangling, preprocessing, and model evaluation using Python.
• Co-authored academic journal and developed interactive visualizations.

Junior Data Analyst – Navalt Solar and Electric Boats | Aug 2022 – Jan 2024
• Conducted CO_2 emissions modeling using marine operation datasets.
• Developed Power BI dashboards to visualize energy consumption and operational trends.
• Automated data collection pipelines and collaborated on sustainability reporting.

Education

MSc in Data Analytics – London Metropolitan University | 2024 - 2025
Relevant Modules: Advanced Machine Learning, Data Visualization, Big Data Analysis, Research Methodology

B.Tech Mechanical and Automobilke Engineering – Sree Chitra Thirunal College of Engineering | 2017 - 2021

Selected Projects

• MSc Dissertation: Deep learning-based forecasting of electricity demand and carbon emissions across U.S. states using LSTM, RNN, and RBM+NN. Visualized forecasts and trends in Power BI.
• Sales Forecasting Model: Built time-series models to predict retail and warehouse sales using XGBoost and ARIMA, deployed for management reporting.
• Energy Dashboard: Created a Power BI dashboard showcasing electricity generation and renewable contribution scenarios across California and Texas.