Ann Mary Thomas

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Detail-oriented and passionate Data Analyst with hands-on experience in Python, Power BI, SQL, and machine learning. Adept at extracting insights from complex datasets, building predictive models, and developing interactive dashboards. Proven success in delivering impactful solutions in both academic and professional environments, particularly in marine sustainability, environmental data, and business operations. Currently contributing to a deep learning research project focused on electricity demand and carbon emission forecasting.

WORK EXPERIENCE

London Metropolitan University • **London**   **02/2025 - Present**

Researcher • **Part-time**

Currently continuing my MSc thesis research on electricity demand and CO_2 emission forecasting, selected for academic publication. Working under faculty supervision to extend the study using deep learning models and time-series data.

- Contributing to a research project titled "Deep Learning-Based Forecasting of Electricity Demand and Carbon Emissions".
- Applying LSTM, RNN, and RBM+NN models to forecast energy demand and assess renewable energy integration in the U.S. power sector.
- Handling large-scale time-series data using Python, performing feature engineering, and building predictive models.
- Collaborating with faculty to prepare findings for journal publication and academic dissemination.

Archaiesth • **London**   **05/2024 - 09/2024**

Data Analyst Intern • **Internship**

Worked at a fashion startup analyzing customer purchase patterns and demographics. Identified key age groups driving sales, optimized product targeting, and provided insights that helped shape successful marketing strategies and improve conversion rates.

- Built Power BI dashboards to track KPIs and operational metrics for clients.
- Worked with business teams to derive actionable insights and support decision-making.

Navalt Solar and Electric Boats Pvt Ltd • **Ernakulam**   **08/2022 - 01/2024**

Junior Data Analyst • **Full-time**

- Developed predictive models to estimate CO_2 emissions of ships based on ship conditions, climate, and sea state.
- Built interactive Power BI dashboards to visualize emissions and drive sustainable operations.
- Automated a data-cleaning script that increased insight accuracy by 70%.
- Collaborated across departments to optimize data workflows and reduce manual reporting.

EDUCATION

MSc in Data Analytics

London Metropolitan University • London   01/2024 - 06/2025

Key Projects: Power BI dashboard on CO_2 emissions, marketing analytics using logistic regression, educational performance modeling.

B-Tech in Mechanical Automobile Engineering

Sree Chitra Thirunal College of Engineering   08/2017 - 06/2021

CERTIFICATIONS

Power BI for Data Analysts

Simplilearn

Advanced Business Excel

Simplilearn

PROJECTS

Deep Learning-Based Forecasting of Electricity Demand and Carbon Emissions   01/2025 - 05/2025

London Metropolitan University

- Comparing LSTM, RNN, and RBM+NN models using U.S. energy datasets

- Evaluating CO_2 reductions from renewable energy integration in regions like California and Texas

- Preparing results for academic journal submission

Vehicle Emissions Dashboard   10/2024 - 12/2024

Self-initiated

Created an interactive Power BI dashboard to analyze vehicle CO_2 emissions by fuel type, manufacturer, and region. Enabled decision-making for emission reduction strategies.

Marketing Campaign Analysis   03/2024 - 05/2024

Self-initiated

Built a logistic regression model in Python to analyze marketing campaign data. Identified customer behavior patterns and optimized targeting to improve conversion rates.

SKILLS

Tools: Excel (Advanced), Git, Jupyter Notebook, Power BI, Python (Pandas, NumPy, Matplotlib, Scikit- learn), SQL

Techniques: Data Cleaning, Data Visualization, Predictive Modelling, Regression Analysis, Time- Series Forecasting

Soft Skills: Analytical Thinking, Communication, Problem Solving, Stakeholder Engagement