Ann Mary Thomas

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Profile

Detail-oriented and passionate Data Analyst with hands-on experience in Python, Power BI, SQL, and machine learning. Skilled at extracting insights from complex datasets, building predictive models, and developing interactive dashboards. Demonstrated success delivering impactful solutions in academic and business environments, with particular strengths in sustainability analytics and business operations. Currently contributing to deep learning research on electricity demand and carbon emissions.

Technical Skills

Data Tools: Python (Pandas, NumPy, Matplotlib, Scikit-learn), SQL, Excel (Advanced), Power BI, Git, Jupyter Notebook
Techniques: Data Cleaning & Validation, Data Visualization, Predictive Modeling, Regression Analysis, Time-Series Forecasting
Soft Skills: Analytical Thinking, Communication & Data Storytelling, Problem Solving, Stakeholder Engagement, Team Collaboration

Experience

Researcher (Part-time), London Metropolitan University, London — Feb 2025 – Present

- Conducting MSc thesis research on electricity demand and CO_2 emission forecasting, selected for publication
- Developing deep learning models (LSTM, RNN, RBM+NN) to forecast energy demand and assess renewable energy integration in the U.S. power sector
- Handling large-scale time-series data in Python, performing feature engineering, and building predictive models
- Preparing findings for journal publication and academic dissemination; collaborating with faculty

Data Analyst Intern, Archaiesth, London — May 2024 – Sep 2024

- Analyzed customer purchase patterns and demographics for a fashion startup
- Built Power BI dashboards to track KPIs and operational metrics
- Identified key age groups driving sales, optimized product targeting, and shaped marketing strategies to improve conversion rates
- Worked closely with business teams to deliver actionable insights

Junior Data Analyst, Navalt Solar and Electric Boats Pvt Ltd, Ernakulam — Aug 2022 – Jan 2024

- Developed predictive models to estimate CO_2 emissions of ships based on operational and environmental parameters
- Built interactive Power BI dashboards to visualize emissions and drive sustainable operations
- Automated data-cleaning processes, improving insight accuracy by 70%
- Collaborated across departments to optimize data workflows and reduce manual reporting

Education

MSc Data Analytics, London Metropolitan University, London — Jan 2024 – Jun 2025

- Key Projects: Power BI dashboard on CO_2 emissions, marketing analytics using logistic regression, educational performance modeling
- Research selected for academic publication; deep learning for electricity demand and CO_2 forecasting

B-Tech Mechanical Automobile Engineering, Sree Chitra Thirunal College of Engineering — Aug 2017 – Jun 2021

Projects

Deep Learning-Based Forecasting of Electricity Demand and Carbon Emissions Jan 2025 – May 2025
London Metropolitan University

- Compared LSTM, RNN, and RBM+NN models using U.S. energy datasets
- Evaluated CO_2 reductions from renewable energy integration (focus: California, Texas)
- Preparing results for academic journal submission

Vehicle Emissions Dashboard (Self-initiated) Oct 2024 – Dec 2024

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

Marketing Campaign Analysis (Self-initiated) Mar 2024 – May 2024

- Built a logistic regression model in Python to analyze campaign data and identify customer behavior patterns
- Optimized targeting to improve conversion rates

Certifications

Statistics Essential for Data Science (Simplilearn)
Advanced Business Excel (Simplilearn)

Interests

Solving logic puzzles and brainteasers
Volunteering as a mathematics tutor
Environmental sustainability