THEJASHREE B

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EDUCATION

Coimbatore Institute of Technology   2023 - Present
M.Sc. Data Science (5-Years Integrated)   CGPA: 7.28(till 4th semester)

SBOA Matriculation Higher Secondary School   2022 - 2023
Higher Secondary Education   Percentage: 78.5%

PROJECTS

Retail Demand Forecasting System 🔗   *Streamlit, Statsmodels (ARIMA), Prophet, XGBoost, scikit-learn, Matplotlib*
- Built a **Streamlit-based retail demand forecasting tool** using Python, Pandas, Prophet, ARIMA, and XGBoost.
- Designed a **robust time-series pipeline** with resampling, interpolation, stockout handling, outlier capping, lag and calendar/external features.
- Implemented **automatic model selection** (MAE/RMSE/MAPE) and **inventory optimization** (EOQ, safety stock, reorder point.

Auto-Image captioning 🔗   *FastAPI, PyTorch, Hugging Face Transformers, Pillow, HTML, CSS, JavaScript*
- Developed an end-to-end automatic image captioning tool enabling users to upload images and receive generated captions in the browser with **<2 second** response time.
- Integrated a pretrained **ViT-GPT2 image captioning model (Hugging Face)** for real time inference, accepting standard JPG/PNG uploads, model loading in **<5 seconds**, and processing individual requests via REST API.
- Designed a clean, responsive UI with FastAPI and JavaScript, enabling smooth image upload, caption display, and seamless interaction with the backend inference API.

Argument Strength Analyzer 🔗   *Flask , scikit-learn, HTML, CSS, JavaScript*
- Created a system that evaluates the **clarity and logical strength** of written arguments, flags common weaknesses and fallacies, and suggests more **coherent, well-structured revisions**.
- Implemented a full workflow from argument input to **scored feedback** including strength rating, weakness explanation and fallacy tags and an automatically rewritten improved version.
- Built a lightweight **ML pipeline** using scikit-learn to **classify argument quality**, detect linguistic patterns, and generate constructive feedback in real time for users.

SKILLS

Languages: Python, SQL, HTML, CSS, JavaScript.
Frameworks: Pandas, scikit-learn, PyTorch
Tools & Technologies: Flask, MongoDB, MySQL, Streamlit, GitHub, Excel, Power BI.
Soft Skills: Problem Solving, Adaptability, Team Work.
Areas of Interest: Time Series Forecasting, Vision-Language Models, NLP Quality Evaluation, Predictive Modeling.

ACHIEVEMENTS & CERTIFICATIONS

- **BinaryXForge (problem-solving event):** Runners Position
- **MinnaLearn & University of Helsinki**: "Elements of AI" Certification
- **Deloitte Australia** Data Analytics Job Simulation on **Forage**
- **HackerRank Certifications**: Python (Basic) and SQL (Basic)
- **Tata Consultancy Services** ESG Job Simulation on **Forage**

CO-CURRICULAR ACTIVITIES

Design Lead – Photography Club: *May 2025 – Sep 2025*
- Designed creative posters, banners using Canva.
- Increased engagement for college events by designing visually appealing promotional materials.
- Coordinated with event teams to deliver timely, high-quality designs under tight deadlines.

Technical Lead – Student Development Cell :   *May 2025 – Present*
- Developed a quiz web app and supported technical operations, event setups, and digital workflows.
- Integrated third-party APIs to enhance app functionality for club events.
- Coordinated with other club leads to align technical solutions with event goals.