Varun S

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EDUCATION

COIMBATORE INSTITUTE OF TECHNOLOGY   **2023 – Present**
M.Sc., Data Science [Integrated]   CGPA: 8.17/10
AGM HR SEC SCHOOL   **2022 – 2023**
Higher Secondary Certificate   Grade: 90%

PROJECTS

THE GYM BOOK: **Link**
- Developed a **Gym Membership Management App** using **FastAPI** (backend) and **React** (frontend) to manage 100+ client records, track payment due dates, and automate expired membership notifications.
- Implemented **PostgreSQL** with indexed queries for data storage, ensuring efficient **CRUD operations**.
- Currently integrating **data visualization dashboards** using **Plotly** to provide insights into membership trends, revenue patterns, and client retention metrics.

NETRATAX – TAX FRAUD DETECTION USING GNN: **Link**
- Engineered a fraud analytics platform using **Graph Neural Networks (PyTorch Geometric)** to detect **shell companies** and **suspicious invoice networks** from GST transaction data.
- Built **Python backend** with **feature engineering pipelines** and developed **GNN models** achieving **85%+** accuracy with **<5%** false positives through **incremental learning techniques**.
- Created **interactive analytics dashboards** with **network visualization**, **risk scoring (0 - 100%)**, and **company fraud analysis**. Integrated **AI chatbot** (Groq API) for conversational platform interaction.

AUTOEDA – AI-DRIVEN EXPLORATORY DATA ANALYSIS: **Link**
- Implemented an AI-powered EDA system with **LSTM autoencoders and attention mechanisms** for automated sequential data analysis, anomaly detection, and pattern recognition, **reducing analysis time by 70%**.
- Built a **Flask-based no-code web interface** enabling users to upload datasets, generate visualizations, and extract insights without programming expertise.
- Implemented **RNN-based preprocessing pipelines** and interactive dashboards to deliver actionable insights for technical and non-technical stakeholders.

SKILLS

Languages: Python, SQL, HTML, CSS, NoSQL (MongoDB)

Frameworks & Libraries: Flask, FastAPI, NumPy, Pandas, Scikit-learn

Tools & Technologies: Git, Power BI, Netlify, AWS, Arduino IDE

Soft Skills: Teamwork, Communication, Critical Thinking

Areas of Interest: SQL, Machine Learning, Data Engineering, IoT

ROLES & RESPONSIBILITIES

Event Management Team – Datalytics Club, Coimbatore Institute of Technology   **2024 – 2025**
Managed event logistics and coordination for 10+ club workshops; personally hosted and served as MC for an event, ensuring smooth delivery and engagement.

Office Bearer – Datalytics Club, Coimbatore Institute of Technology   **2025 – Present**
Organized 5 club events including intra-college data science hackathon (20 teams); oversaw budget management, cross-team collaboration, and promotional activities to establish the club as a premier data science community on campus.

ACHIEVEMENTS

- **SMART INDIA HACKATHON 2025** – Internal Hackathon winner; recognized as top 50 teams
- **THE BIG HACK 2025**, AIT BANGALORE – Finalist; selected among 6 teams from 82 initial teams, led a team of 4
- **COLIGO AI HACKATHON**, CIT – Finalist; selected among 8 teams from 140 initial teams, led a team of 6
- **THINKLYTICS (LOGIN 2025)**, PSG College of Technology – Winner; led a team of 2 in a data analysis competition
- **DATA CRAFT (MELINIA 2024)**, CIT – Second Runner-up; led a team of 3 in a data analysis competition

CERTIFICATION

- **SQL(Basic)** HackerRank Certification