ATSHAYAA B

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EDUCATION

Coimbatore Institute of Technology, M.Sc. Data Science (5-Year Integrated)   2023 – 2028
- CGPA: 8.05 (Till 4th Sem)

Santiniketan Public School, Theni   2022 – 2023
- HSC Percentage: 84%

PROJECTS

- **Elderly Voice Assistant**   GitHub
  Technologies Used: Flask, HTML, CSS, JavaScript, Web Speech API, Twilio, Geolocation API

  – Built a multilingual assistant (Tamil/Hindi/English) with 95% keyword detection accuracy.
  – Achieved <1s emergency response time and enabled SMS alert triggers via Twilio
  – Added geolocation-based alerting improving caregiver response efficiency by 30%.

- **Driver Fatigue Detection and Alert System**   GitHub
  Technologies Used: Python, Streamlit, OpenCV, MediaPipe, Flask, TensorFlow, Keras

  – Developed a real-time CNN-based system with 92% drowsiness detection accuracy.
  – Reduced false alerts by 30% via optimized eye-closure/yawn analysis.
  – Delivered 20+ FPS live monitoring with Flask dashboard visualizations.

- **Smart Invoice Processor with SAP Integration**   GitHub
  Technologies Used: Python, Flask, PostgreSQL, HTML, CSS, JavaScript, Scikit-learn, Isolation Forest, KMeans, Plotly, SAP API

  – Extracted invoice fields with 93% accuracy and deployed anomaly detection usinng Isolation Forest.
  – Reduced manual review time by 60% and orchestrated SAP posting using mock APIs.
  – Built Plotly dashboards enabling invoice insights 3× faster.

SKILLS

Languages: Python, Java, SQL   **Databases:** MySQL, PostgreSQL, MongoDB
Web: HTML, CSS, JavaScript   **Tools:** Excel,Power BI
Soft Skills: Problem Solving, Communication, Teamwork, Adaptability

AREAS OF INTEREST

- Data Analysis
- Machine Learning
- Database Management System
- Data Structures and Algorithms
- Full-Stack Web Development

ROLES & RESPONSIBILITIES

- **Innovation Head (2025)** — FOSS-CIT
- **Social Media Team (2024–25)** — FOSS-CIT
- **Relational and Quality Controller (2025)** — The Snippet

CERTIFICATES

- **Python Bootcamp** — Udemy
- **Java (Basic)** — HackerRank
- **Database Management System** — NPTEL
- **Web Development (HTML, CSS, JS)** — Coursera
- **Power BI** — OfficeMaster

ACHIEVEMENTS & PARTICIPATION

- Secured **2nd Runner-Up** at **VISUAL FOCUS** conducted by SKCET.
- Earned the **LeetCode SQL 50 Badge**, demonstrating strong proficiency in SQL problem-solving and database querying.
- Finalist in the **Melinia Ideathon** conducted by the **Department of Computing, CIT**, shortlisted among **150+ teams**.
- Finalist in **BYTE-SIZED BRAINSTORM – The Dough Vinci Code Hackathon** among **100+ teams** conducted by CIT.
- Participated in **SIH Internal Hackathon** conducted by CIT.