SUDHARSAN T

Chennai | sudharsant44@gmail.com | linkedin.com/sudharsan-thirumalai | github.com/Sudharsan-T

DATA ENGINEER

Aspiring Data Engineer with hands-on experience in building scalable pipelines, cloud data storage, and deploying ML models. Passionate about data-driven decision-making and operational efficiency.

SKILLS

- Python
- SQL & NoSQL Databases
- Data Pipeline Development
- Cloud Platforms
- Big Data Technologies
- Data Warehousing & Modeling
- Machine Learning & Deep Learning
- Computer Vision
- MLOps & Model Deployment
- Data Visualization
- Version Control
- Workflow Orchestration

PROJECTS

Customer segmentation and Product Recommendation   **July 2024 - Nov 2024**

- Developed robust ETL pipelines to preprocess and clean customer data, ensuring high-quality inputs for analysis. Orchestrated data workflows using Apache Airflow for automated and efficient data processing. Applied RFM analysis and K-Means clustering to segment customers and deliver personalized product recommendations, enhancing customer engagement and retention.

Lok Sabha 2024 Election Insights – A Data Analysis Power BI   **Feb 2024 - March 2024**

- Implemented automated CI/CD pipelines to streamline data updates and maintain dashboard accuracy. Created dynamic Power BI dashboards for visualizing constituency-level election results, voter behavior, and party trends. Leveraged historical election and demographic data to analyze regional voting patterns and forecast electoral outcomes, supporting data-driven decision-making.

Multimodal Fusion Learning with Dual Attention for Medical Imaging   **Jan 2025 - Feb 2025**

- Implemented MLOps workflows with Docker and Git to ensure reproducible model training and deployment. Developed a deep learning model combining CNN, LSTM, and Transformer attention, enhanced with Bayesian Neural Networks for accurate disease detection across multiple imaging modalities.

TOOLS

- Python
- PostgreSQL
- Apache Airflow
- Amazon S3 (AWS)
- Apache Spark
- MongoDB
- TensorFlow
- OpenCV
- Docker

EDUCATION

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology   **Aug 2022 - May 2026**

- B-Tech Artificial Intelligence & Data Science. **CGPA:8.1**

Chellammal Vidyalaya (CBSE)   **June 2020 - March 2022**

- Higher Secondary Education Relevant Subjects to Computer Science. **CGPA:7.7**

ADDITIONAL INFORMATION

- **Languages**: Tamil, English
- **Certifications**: The Complete Python Pro Bootcamp (Udemy), Data Analysis by Microsoft , Microsoft PowerBi for Business Analyst (Udemy)

ACHIEVEMENTS

- Secured **1st place** in Group Discussion and Debate competitions, demonstrating strong communication, critical thinking, and persuasive skills.
- Achieved **2nd place** in a national-level Codethon, showcasing technical proficiency, problem-solving ability, and teamwork under pressure.