

Saran K

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GitHub | LinkedIn | Portfolio

PROFILE SUMMARY

Motivated and detail-oriented Electrical and Electronics Engineering graduate with a strong foundation in Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, and Data Analytics. Proficient in Python, SQL, Scikit-learn, PyTorch, Transformers, Pandas, NumPy, and Power BI, with hands-on experience developing end-to-end AI and data-driven applications through academic and personal projects. Skilled in data preprocessing, feature engineering, model evaluation, data visualization, and deploying interactive applications using Streamlit. Passionate about leveraging AI and data to solve real-world problems and eager to contribute as an AI/ML Engineer, Data Scientist, or Data Analyst.

PROJECTS

Job Placement Prediction System

GitHub

- Developed an HR analytics platform using **Random Forest** to predict candidate placement outcomes based on academic and employability features.
- Applied feature engineering, missing value handling, class balancing, and model evaluation to improve prediction performance.
- Integrated a MySQL database and built interactive Streamlit dashboards to visualize placement trends, candidate performance, and hiring insights.

App User Behavior Segmentation

GitHub

- Built a machine learning-based analytics platform using **K-Means clustering** to segment users based on behavioral patterns.
- Performed data preprocessing, feature engineering, outlier handling, and cluster validation to improve segmentation quality.
- Visualized engagement trends, churn risk, and subscription insights through interactive **Streamlit** and **Plotly** dashboards with MySQL integration.

Sales Management Analysis Dashboard | Power BI

Dashboard

- Built a Power BI dashboard to monitor sales performance using interactive charts, maps, and slicers. Analyzed customer, product, branch, payment, and sales data to identify trends, compare branch performance, and support business decision-making through real-time insights.

Online Food Delivery Analysis Dashboard | Power BI

Dashboard

- Developed an interactive 6-page Power BI dashboard to analyze 99K+ food delivery orders, tracking revenue, profit, customer behavior, restaurant performance, delivery efficiency, and operational insights. Utilized Power Query, DAX, KPI cards, slicers, and interactive visualizations to transform raw data into actionable business insights for decision-making.

EDUCATION

Government College of Engineering, Dharmapuri

2021 – 2025

B.E. in Electrical and Electronics Engineering | CGPA: 7.38/10

Dharmapuri, Tamil Nadu

Sree Vetri Vikas Matric Hr. Sec. School

2021

Higher Secondary Certificate (Class XII)

Molayanur, Tamil Nadu

Kamalam International School

2019

Secondary School Certificate (Class X)

Dharmapuri, Tamil Nadu

SKILLS

Programming Languages: Python, SQL, Basics of [HTML, CSS]
Data Science & AI: Machine Learning, Deep Learning, Natural Language Processing (NLP)
Data Analytics: Data Preprocessing, Data Visualization, Exploratory Data Analysis (EDA)
Libraries & Frameworks: Pandas, NumPy, Scikit-learn, PyTorch, TorchVision, Hugging Face Transformers, spaCy, MediaPipe, Streamlit.
Databases: MySQL
Cloud & DevOps: AWS (S3, EC2, Lambda), Firebase, Git, GitHub, VS Code
Data Visualization & BI: Power BI, Tableau, Excel, Plotly, Matplotlib,seaborn
Soft Skills: Problem Solving, Analytical Thinking,Communication Skills, Documentation, Team Collaboration, Adaptability, Quick Learning, Time Management

CERTIFICATIONS

Master Data Science Program (7 Months)	HCL GUVI IITM Pravartak
Successfully completed a 7-month Master Data Science Program covering Python, SQL, Machine Learning,Deep Learning, NLP, Data Visualization, Power BI, and AWS Cloud.Built multiple end-to-end data science and analytics projects using real-world datasets.	
Python - IITM Pravartak Certified	HCL GUVI
SQL for Data Analysis	HCL GUVI
Power BI	HCL GUVI
Microsoft Excel	HCL GUVI
Tableau	HCL GUVI