Sivakumar A

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SUMMARY

Detail-oriented Data Scientist with expertise in statistical modeling, machine learning, and neural networks. Skilled in transforming raw data into actionable insights, developing robust prediction systems, and applying explainable AI methods. Experienced in orchestrating end-to-end ML workflows, including data cleaning, EDA, modeling, tuning, and visualization. Possesses strong problem-solving mindset with the ability to work across AI, analytics, and application development.

WORK EXPERIENCE

Service Engineer   Jan 2015 - aug 2025

Delivered technical solutions and ensured smooth service operations. Diagnosed and resolved complex issues under deadlines. Collaborated with teams and clients to maintain high-quality support. Enhanced analytical and troubleshooting capabilities through hands-on problem resolution.

PROJECTS

SwastAid AI-Powered Diabetes Management & Medication Assistant

Developed an AI-driven healthcare system with OCR-based Blood report extraction, intelligent pill reminders, and personalized diabetic meal recommendations based on user vitals. Built real-time medical tracking and a one-tap SOS emergency to enhance patient safety. Cross-platform (Android) app using Flutter and FastAPI with high uptime and reliable performance.

Advanced Time Series Forecasting — Neural Networks

Built LSTM and Attention-based deep learning models for long-horizon time series forecasting with significantly improved accuracy over traditional methods. Performed preprocessing, sliding-window sequence generation, and feature engineering to optimize model performance. Evaluated predictions using MAE/RMSE/MAPE and created visualizations for clear trend interpretation.

Credit Risk Prediction — Machine Learning Project

Developed a credit risk classification model with strong predictive accuracy by applying preprocessing, EDA, feature engineering, and class-imbalance handling. Integrated SHAP and LIME to provide transparent model interpretability and explain individual predictions. Evaluated performance using Accuracy, Precision, Recall, F1-Score, and ROC-AUC to ensure reliability.

EDUCATION

2025	Data Science & AI at **Cultus Education & Technology**	(5/5)
2011 - 2015	Bachelor's Degree at **Nandha Engineering college**	(GPA: 7.0/10)

SKILLS

Machine Learning	TensorFlow, PyTorch, Keras, Scikit-learn, Transformers, CNNs, LSTM
Data Analysis & Visualization	Pandas, NumPy, Matplotlib, Seaborn.
Tools/IDEs	Git, Power BI, Excel / VS Code, Jupyter Notebook