Sekar Kumaran

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SKILLS

- **Languages**: Python, Java, SQL
- **Frameworks**: Pandas, NumPy, Seaborn, Matplotlib, TensorFlow, Scikit-learn
- **Tools/Platforms**: Git, Tableau, Power-Bi, Docker, Jupyter Notebook,Django,Streamlit
- **Soft Skills**: Leadership, Collaborative, Problem solving, Adaptability, Project management, Resilient, Diligent

TRAINING

Lovely Professional University

Java Maestro: Hands On Training And Developing Gui Applications Jun'25 –Jul'25

- Mastered Java fundamentals and object-oriented programming to establish a java GUI development foundation.
- Completed a summer training project on "Goal vs. Distraction Tracker" using Java GUI.
- Designed and implemented features to log, track, and compare productive goals against distractions.
- Gained hands-on experience in Java Swing, event handling, and file/database integration.
- Improved problem-solving, project design, and time-management skills through practical application.

PROJECTS

Goal vs. Distraction Tracker | Java, Swing, AWT, OOP, File Handling Jul'25

- Designed and developed a desktop application to log and compare productive goals against distractions.
- Implemented Java Swing GUI with interactive forms, event handling, and data persistence via file handling.
- Enabled daily/weekly tracking with summary reports, improving user productivity visualization.
- Strengthened skills in problem-solving, object-oriented programming, and GUI-based application design.

Smart City Energy Consumption ML Dashboard | Python, Streamlit, Scikit-learn, Plotly, Pandas Aug'25

- Architected comprehensive ML dashboard analyzing 200K+ smart city energy records with electricity load, renewable output, and building consumption patterns.
- Engineered & deployed 7 machine learning models (Random Forest, Linear Regression, Gradient Boosting) achieving 100% accuracy in time-of-day classification and R^2 performance metrics.
- Designed & implemented modular Streamlit application with modern glass-morphism UI, interactive visualizations, and real-time prediction capabilities reducing user interaction time by 60%.
- Delivered actionable energy insights through automated feature engineering, time series analysis, and peak load forecasting enabling data-driven smart city energy management decisions.

Company Sales Analytics & ML Dashboard | Python, Streamlit, Scikit-learn May'25

- Developed and deployed an interactive sales forecasting dashboard using machine learning algorithms (Random Forest, XGBoost, LSTM) to predict monthly sales across 6 product categories.
- Implemented comprehensive EDA pipeline and feature engineering, achieving 85%+ accuracy in sales predictions and enabling data-driven inventory planning for business stakeholders.
- Built responsive web application with real-time ML predictions and automated reporting, reducing manual forecasting time by 60% and improving decision-making efficiency.

CERTIFICATES

- Unrevealing Basic Python Towards ML/AI(CSE Pathshala) Mar'24
- Computer Programming in C (iamneo) Jan'24-May'24
- Introduction to Hardware and operarting systems (Coursera) Sep'24
- Data science job simulation (BCGX Forage) Jul'25
- Deloitte Australia – Data Analytics Job Simulation (Forage) Jun'25
- Java Maestro: Hands On Training And Developing Gui Applications Apr'25

ACHIEVEMENTS

- **Team Management:** ongoing

  Led a team of peers in learning and implementing Machine Learning concepts, guiding project selection and execution.

- **Data Science & ML Achievements:** Jun'25

  Completed 5+ ML projects applying supervised, unsupervised, and time-series models with Python.

EDUCATION

- **Lovely Professional University** Punjab, India
  Bachelor of Technology - Computer Science and Engineering *Aug'23-Present*
- **Trinity International School** Namakkal, TN
  *CBSE; **Percentage: 77%*** *Apr'22 – Mar'23*
- **Bharathi Academy** Namakkal, TN
  *CBSE; **Percentage: 80%*** *Apr'20 – Mar'21*