SAM NAVEEN A.B

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EDUCATION

Karpagam College of Engineering
B.Tech in Artificial Intelligence and Data Science
Batch : 2023 - 2026 | Coimbatore, TN
CGPA: 7.6 / 10.0

SUMMARY

Machine Learning Engineer skilled in AI, Data Science, and MLOps with hands-on experience deploying ML models using Docker and Streamlit. Developed **end-to-end ML solutions**, including a **Diabetes Prediction Model** and **Stock Price Prediction App**, improving predictive accuracy by **95%**. Passionate about optimizing models for real-world applications**.**

COURSEWORK

- Machine Learning, Deep Learning, Neural Networks Data Structures, Database Management Systems
- DevOps, Operating Systems, Numeric Linear Algebra, Probability and Statistics

CERTIFICATIONS

- **NPTEL** - Data Analytics with Python
- **Qlik Certified** - Business Analyst
- **NPTEL** – Cloud Computing.
- **MongoDB University** - Introduction to MongoDB

TECHNICAL SKILLS

Languages

- Python, Java, R, MySQL, MongoDB.

Frameworks & Libraries

- Scikit-learn, Pandas, NumPy, TensorFlow, Matplotlib, TPOT, Django, React.

Tools & Platforms

- Git, GitHub, Google Colab, Docker, Tableau, MySQL, MongoDB.
- Google Colab, PyCharm, Streamlit, Feature Engineering, MLOps, Visual Studio Code.

Soft Skills

- Teamwork, Leadership, Communication, Active Listening.

PROJECTS

Diabetes Prediction

- Developed a **Diabetes prediction model** using **Support Vector Machines (SVM)**.
- Implemented a full-stack web app using **React (frontend) & Django (backend)**.
- **Deployed** the application using **Docker**, improving scalability.
- **Technologies Used: | SVM, Django, React, Docker, Git, GitHub**

Voice-Control Personal Assistant

- Built a **voice-activated AI assistant** integrating **speech recognition & NLP**.
- Implemented **Flask backend & React frontend**, containerized using **Docker**.
- Integrated **OpenAI APIs** for real-time responses.
- **Technologies Used: NLP, OpenAI, Flask**

Stock Price Prediction Nifty 50 Index

- Built an ML model predicting mobile prices using **real-time market data**.
- Optimized model accuracy through **AutoML frameworks & manual hyperparameter tuning**.
- **Deployed** model on **Gradieo** for real-time predictions.
- **Technologies Used: Python, Streamlet, Machine Learning, TPOT, H20AI, Gradieo**

House Price Prediction Dashboard | Tableau

- Built an interactive **Tableau dashboard** for **New York housing price analysis**.
- Utilized **statistical modelling & 3D data visualization** to identify price trends.