



KRISHNAVENI J

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Education

B. Tech : Electronics and Communication Engineering

Govt. Model Engineering College, Kochi
AGGREGATE: 9.27
2021 - 2025

Class XII : Computer Science

Kendriya Vidyalaya Ernakulam, Kochi
AGGREGATE: 96.6%
2020 - 2021

Class X

Kendriya Vidyalaya Ernakulam, Kochi
AGGREGATE: 96%
2018 - 2019

Technical Skills

- Python
- C++
- Machine Learning
- SQL
- HTML (Basics)
- CSS (Basics)
- GitHub (Basics)
- Blynk IoT

Soft Skills

- Problem - Solving skills
- Communication skills
- Leadership Quality
- Teamwork
- Creative Thinking
- Attention to detail

Projects

ELLIPTIC CURVE CRYPTOGRAPHY ALGORITHM FOR IOT APPLICATIONS

Duration: 3 Months

Technology(s) Used: Python, ECC, Verilog

- Developed an **Elliptic Curve Cryptography Algorithm for IoT Applications**, a model allowing secure communication suitable for resource-constrained environments.
- Generated **public key, private key, and shared secret key** of both transmitter and receiver, which are essential for encryption and decryption of text.

INVENTORY DEMAND FORECASTING

Duration: 1 Month

Technology(s) Used: Python, Numpy, Pandas, Scikit-learn, Data cleaning and preprocessing, Feature Engineering, EDA and Jupyter Notebook

- Designed and implemented a **machine learning model** using **XGBoost** for **sales forecasting**, incorporating **data cleaning, preprocessing, EDA**, and **feature engineering** to improve prediction accuracy.
- Evaluated results with **RMSE, MAE, and R²** metrics, enabling data-driven insights for better inventory management.

SMART CRADLE

Duration: 3 Months

Technology(s) Used: C++, ESP8266, ESP32-CAM, Sound Sensor, Rain Sensor, Stepper Motor, DFPlayer, Blynk, and Arduino IDE

- Developed a Smart Cradle – an **IoT-enabled** system that allows **remote baby monitoring** and **automates cradle control** based on environmental and behavioral inputs.

Professional Experience

AI INTERNSHIP

Duration: 2 Months

Smartknower | Remote

- Gained expertise in **Python** and key **ML** frameworks (TensorFlow, Keras, Scikit-learn) by developing deep learning models for **handwritten digit and hand sign prediction** using MNIST and Kaggle datasets.

Positions Of Responsibility

- Design Head**, IETE SF MEC 2024, Govt. Model Engineering College.

Certifications

- Pursued a course in **Programming, Data Structures And Algorithms Using Python** certified by NPTEL in association with IIT Madras.
- Completed a course on **Essential Mathematics For Machine Learning** provided by NPTEL in affiliation with IIT Roorkee.
- Pursued a course in **Deep Learning** certified by NPTEL in association with IIT Ropar.