



# KRISHNAVENI J

## Contact

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- Design Portfolio
- LinkedIn
- Github

## 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

- Canva
- Adobe Photoshop (basics)
- Adobe Illustrator (basics)
- HTML, CSS, JavaScript (basics)
- Python
- Machine Learning
- SQL
- Blynk IoT

## Soft Skills

- Attention to detail
- Problem - Solving skills
- Willingness to learn and adapt
- Communication skills
- Leadership Quality
- Teamwork
- Creative Thinking

## 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 R<sup>2</sup>** 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.

## Positions Of Responsibility

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

## 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.

## 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.