

# VIGNESH K

Karur, Tamil Nadu

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## Professional Summary

AI and Data Science student with expertise in Python and Java, skilled in machine learning, data analysis, and algorithms. Collaborative and detail-oriented, with experience solving complex problems and improving user experiences. Passionate about applying technical knowledge to impactful projects and continuous growth.

## Technical Skills

**Programming Languages:** Python, Java, JavaScript, C++.

**Frontend Development:** HTML, CSS, Bubble.io, Git, GitHub.

**Backend Development:** Spring Boot, Flask.

**Databases and Tools:** NoSQL(MongoDB), SQL, H2 Database, Postman, Google Colab, Kaggle.

## Education

V S B Engineering College, Karur (Nov 2022 - Present)

B.Tech in AI & Data Science

CGPA: 8.7+

Vivekananda Metric Hr. Sec. School, Karur

10th Percentage: 79%

12th Percentage: 78%

## Certifications

- Java
- Python
- SQL
- Generative AI

## Experience

### Infosys, Bengaluru (Remote) — Java Stack Intern

OCT 2024 – DEC 2024

- Developed a full stack web application **Car Rental Web Application** using **Java**, Enhanced application efficiency, reducing query response time by **30%** through optimized SQL queries and caching mechanisms.
- Technologies:** Spring Boot, H2 Database, Java Mail, JWT Tokens, Bubble.io.

### Edunet Foundation, Gurgaon (Remote) — AI & Cloud Developer

JULY 2024 – AUG 2024

- Built AI-driven solutions on **IBM Cloud**, Reduced development time by **25%** by integrating automated testing frameworks into the deployment pipeline.
- Technologies:** IBM Watson APIs, IBM Cloud, Python, RESTful APIs

## Projects

### 1. Blockchain-Based License Protection:

Developed a blockchain-based system utilizing **smart contracts** on the Ethereum platform. This project automated and secured software license validation, significantly reducing piracy risks by 40%.

**Technologies:** Blockchain, Ethereum, Solidity, and Smart Contracts.

### 2. Car Rental Web App (RentWheelz):

Optimized SQL queries and introduced caching mechanisms, reducing query response time by **30%**. Explored rapid prototyping using **Bubble.io** for UI enhancements..

**Technologies:** Spring Boot, H2 Database, Java Mail, JWT Tokens, Bubble.io.

### 3. SMS Automator for Mark Statement

Automated the process of sending student mark statements via SMS to improve communication efficiency in educational institutions.

**Technologies:** Python, Tkinter, Selenium.