

# VIGNESH C

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## SUMMARY

I am a dedicated and innovative final-year Artificial Intelligence and Data Science student with strong proficiency in Full-stack Developer and machine learning. I have hands-on experience developing AI-powered systems, including a criminal detection platform and a knowledge management tool focused on personalized learning. My technical skill set includes Python, Flask, SQL, and building knowledge graph-based solutions. I am deeply passionate about AI research and aim to innovate in the areas of intelligent automation and adaptive learning systems.

## EDUCATION

Kings Engineering College  
B.Tech Artificial Intelligence And Data Science  
**CGPA : 7.9 %**

**2021 - 2025**  
SRIPERUMBUDUR

## EXPERIENCE

### Data Science Internship Prodigy Infotech

- Conducted data cleaning and preprocessing using Python (Pandas, NumPy), ensuring dataset accuracy for analysis.
- Applied machine learning techniques (regression, decision trees, clustering) to uncover trends and patterns.
- Utilized SQL for data extraction and management of large datasets.
- Developed and deployed predictive models using scikit-learn to provide actionable business insights.
- Created interactive dashboards in Tableau for easy data interpretation by stakeholders.

## SKILL SUMMARY

- Technical Skills:** Python, HTML, CSS, Machine Learning.
- Tools:** Excel, MySQL, Figma.
- Languages:** English, Tamil.
- Soft Skills:** Time Management, Problem Solving, Leadership.
- Hobbies:** Kabaddi, Image and Video Editing, Listening song.
- Achievements:** I have certification in Smart India Hackthon.

## PROJECTS

### AI POWERED KNOWLEDGE MANAGEMENT SYSTEM

**DEC 2024-MAR 2025**

The AI-Powered Knowledge Management System leverages AI, NLP, and knowledge graphs to enhance long-term retention of learning materials through interactive flashcards, mistake tracking, and spaced repetition scheduling. It transforms unstructured data into structured knowledge for personalized and effective learning.

Challenges and Solutions:

- Implemented NLP techniques like Named Entity Recognition (NER) and dependency parsing to structure the data into a knowledge graph.
- Integrated a spaced repetition scheduler that dynamically plans revision sessions to boost memory retention.
- Developed interactive flashcards, quizzes, and reminders to gamify the learning experience and encourage consistent usage.
- Designed a mistake analyzer and recommendation engine that adapts content based on user performance and weak areas.

**CRIMINAL FACE DETECTION**

**SEP 2022**

Criminal Detection System using Face Recognition Python, OpenCV, Flask, PostgreSQL

Objective: Developed a system to identify and track criminals using advanced face recognition Technology, enhancing public safety and law enforcement.

Challenges and Solutions:

- Addressed the challenge of indexing large image datasets by optimizing Elasticsearch configurations.
- Enhanced search accuracy by fine-tuning feature extraction methods and nearest neighbor search parameters.

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**CERTIFICATION**

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| • Python, C++ - Cybernaut                      | <b>MAR 2021 - MAY 2021</b> |
| • Smart India Hackthon - Sathyabama University | <b>SEP 2022</b>            |
| • Data Science - Prodigy Infotech              | <b>AUG 2024 - SEP 2024</b> |
| • Machine learning - Vcodez                    | <b>MAR 2025 - JUN 2025</b> |