

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 2021 - 2025
B.Tech Artificial Intelligence And Data Science SRIPERUMBUDUR
CGPA : 7.9 %

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.

CERTIFICATION

- Python, C++ - Cybernaut
- Smart India Hackthon - Sathyabama University
- Data Science - Prodigy Infotech
- Machine learning - Vcodez

MAR 2021 - MAY 2021

SEP 2022

AUG 2024 - SEP 2024

MAR 2025 - JUN 2025