

DHAYANANDHAM R

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Education

KCE-Karpagam College of Engineering

B.Tech in Artificial Intelligence and Data Science

- GPA: 8.7 / 10.0
- **Coursework:** Foundational Mathematics, Data Structures & Algorithms, Python & Java Programming, Database Management Systems, Machine Learning, MLOps, Digital Logic Circuits, Operating Systems, Computer Networks, Web Application Development, Natural Language Processing.

Projects

Movie Recommendation System

- The system suggests movies using content-based filtering based on user preferences, with Flask integration for seamless recommendation interaction and delivery and supervised using tools like Docker and Git.

Course Adviser Bot

- A smart assistant that uses rule-based logic to recommend academic courses via a Flask interface, enabling dynamic input handling and response generation.

DiagnoWise

- Applies machine learning to classify diseases from symptoms and deploys a Flask backend for real-time health prediction with an intuitive user interface.

Sales Predictor

- Uses regression techniques to forecast sales based on marketing data trends, deployed as a Flask web app to support business decision-making in real time.

Skills

- **Tools & Version Control:** Skilled in using Git for collaboration, GitHub for code management, and familiar with project tools like VS Code, Jupyter, and Docker for containerized development.
- **Web Development:** Knowledgeable in HTML, CSS, and JavaScript for frontend development and Flask for backend APIs to deploy machine learning models in production-ready web apps.
- **Database Management (DBMS):** Skilled in designing and managing relational databases using SQL, with knowledge of normalization, indexing, joins, and ACID properties for transaction safety.
- **Data Structures & Algorithms:** Proficient in implementing and optimizing DSA concepts like arrays, linked lists, trees, graphs, and dynamic programming to solve algorithmic problems efficiently.
- **Machine Learning Ops (MLOps):** Hands-on experience with Git, DVC for versioning, and Docker for containerization to build reproducible ML pipelines and deploy scalable models using Flask.
- **Programming Languages:** Proficient in Python and Java, with experience in backend development, scripting, object-oriented programming, and automation

Achievements

- Participated in various Paper presentations and Workshops in various Institutions
- Solved numerous coding problems on LeetCode and HackerRank, strengthening problem-solving skills.
- Completed various online courses on data science, machine learning, and programming to enhance technical knowledge and stay updated with industry-relevant skills and tools.

Certifications

- Certificate of completion "Learn Blockchain and Cryptocurrency from Beginning" - Udemy
- Qlik Sense Business Analyst Qualification 2024
- Introduction to Internet of Things -NPTEL

Internships

- Python programming in Bytes
- Deep Learning in LearnLogicify

