

Sakthivel Chandramohan

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ABOUT

Enthusiastic MCA student skilled in Java, Python, and full-stack development. Passionate about building scalable applications, data-driven solutions, and exploring emerging technologies in software and machine learning.

PROJECTS

MARKET BASKET ANALYSIS USING APRIORI ALGORITHM | 2025

Tools: Python, Pandas, mlxtend, Matplotlib

- Applied the Apriori algorithm to extract product bundling insights from transaction data using Pandas and mlxtend.
- Generated association rules to support cross-selling and improve marketing promotion efficiency.

PATIENT FOOD RECOMMENDATION SYSTEM | 2025

Tools: MongoDB, Express.js, React, Node.js (MERN Stack), CSS, REST APIs

- Developed a full-stack web application recommending personalized meal plans for patients with health-based restrictions.
- Designed a responsive React UI for dynamic meal visualization and improved user experience.

SENTIMENT ANALYSIS USING AMAZON REVIEW DATASET

| 2024

Tools: Python, NLTK, VADER, Matplotlib, Seaborn

- Performed sentiment classification on Amazon reviews using VADER and NLP preprocessing techniques.
- Improved model accuracy through enhanced normalization and insight visualization.

SENTIMENT ANALYSIS USING TWITTER DATASET | 2023

Tools: Python, BERT, Transformers, Pandas, Twitter API, Matplotlib

- Fine-tuned a BERT transformer model for tweet sentiment classification using real-time Twitter API data.
- Evaluated model performance and visualized metrics such as precision, recall, and F1-score.

CERTIFICATIONS

Programming in Java – NPTEL | Jan 2025

Python for Data Science – Infosys Springboard | Apr 2025

Explore Machine Learning – Infosys Springboard | Apr 2025

Oracle Foundation Certificate – Oracle University | Jul 2025

Data Science and Machine Learning Training – Infosys Springboard | 2025

EDUCATION

MASTER OF COMPUTER APPLICATIONS

Mepco Schlenk Engineering College, Sivakasi

CGPA: 8.28 | Aug 2024 – Present

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

The American College, Madurai

CGPA: 7.25 | Aug 2021 – May 2024

HIGHER SECONDARY

NVS Higher Secondary School

Computer Science & Mathematics | 8.5/10

SKILLS

Languages: Java, Python, C, JS

Frameworks: Angular, React, Node.js, Express.js

Databases: MongoDB, MySQL (SQL)

Tools: Git, VS Code, Postman, Jupyter Notebook

COURSEWORK

Mobile Development

Amazon Web Services

AI/ML Training

RDBMS

Operating Systems

Data Mining

Software Testing

Internet of Things

Big Data Analytics

INTERESTS

TECHNICAL

Full-stack Development • Algorithmic Problem Solving • Machine Learning (Model Training & Evaluation)

NON-TECHNICAL

Networking • PC Assembling • Gaming

LINKS

github.com/initakthi

linkedin.com/in/sakthivelchandramohan

LANGUAGES

English (Fluent) • Tamil (Fluent)