

# DIVYA MAKI S

## CONTACT

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## PROFILE

Aspiring AI and Data Science enthusiast with a strong foundation in problem-solving, algorithm development, and predictive modeling. Passionate about leveraging machine learning, deep learning, and data-driven insights to develop innovative and efficient solutions in a dynamic environment.

## EDUCATION

### B.Tech in AIDS

Mepco Schlenk Engineering College , Sivakasi  
8.09 CGPA(till 4th semester)

### Class XII State board

Y.R.T.V Matriculation Higher Secondary  
School ,Sivakasi  
88.67%

100% in Computer Science

### Class X State board

Y.R.T.V Matriculation Higher Secondary  
School ,Sivakasi  
83.8%

## PROJECT

### AI in Story Narration

Built an AI-powered app using Gradio, GPT-2, Cohere, Stable Diffusion, and gTTS to generate stories, images, audio, and videos from user prompts.

### Weather Forecasting Web App

Built a Streamlit-based app predicting temperatures using an ensemble model. Integrated MongoDB for data storage and Open-Meteo & OpenCage APIs for real-time weather data.

### Music Player

Built a Python Music Player with a Tkinter GUI, SQLite authentication, and pygame for audio playback, supporting play, pause, stop, and song management.

### Sokoban Player using DFS

Developed a Sokoban puzzle game using Python and Tkinter, featuring grid-based movement, win detection, and BFS-based auto-solving for optimal gameplay.

### Truck Delivery Logistics

Developed a Python-based GUI application using Tkinter to analyze transportation data from CSV files. Implemented five analysis modules: supplier accuracy (pie charts), trip classification (Naive Bayes), material booking (bar graphs), KMeans clustering, and vehicle distance/fuel consumption (bar charts). Utilized pandas, matplotlib, and scikit-learn for data processing and visualization.

## CERTIFICATIONS

- AWS Cloud Practitioner
- IEEE-English For Technical Professionals
- Joy Of Computing Using Python - NPTEL
- Programming with Java course - NPTEL
- Infosys Springboard - Associate in IT  
Foundation Skills (Java)

## SKILLS

- C , Java , Python
- MySQL, MongoDB
- Data Visualization: Tableau
- Cloud Computing: AWS

## WORKSHOP

- NLP and Large Language Model
- Exploratory data analytics and data  
visualization
- PC assembling , OS trouble  
shooting and installation

### Virtual Memory Management

This Page Replacement Algorithm Simulator uses GTK to visualize FIFO, LRU, and Optimal page replacement algorithms. It tracks page hits, faults, and memory updates, helping users understand virtual memory management interactively.