Aishwarya A

Email: aishwarya.ashok@outlook.com
Phone: +91 9600164552
Github: github.com/aishwarya-41
LinkedIn: linkedin.com/in/aishwarya-ashok-0496942b3
Leetcode: https://leetcode.com/u/aishwarya41/

Education

B.Tech Artificial Intelligence and Data Science August 2023 – May 2027 (Expected)
Shiv Nadar University, Chennai
CGPA: 9.17 (Semester I to Semester V)

Projects

- **Sign Detector Web Application:** *React, CSS, SQL, Flask, TensorFlow*
  A deep learning-based web application for detecting and translating road signs from Belgian Traffic Sign Dataset.
  - Built a CNN model using TensorFlow to classify traffic signs with a test accuracy of 87.40%.
  - Integrated OCR for text extraction and multilingual translation support.
  - Developed a full-stack system using Flask for backend APIs, SQL for data storage, and React for the frontend.
- **Recipe Book Web Application:** *React, Node.js, Express, MongoDB, CSS*
  A full-stack recipe management web application implementing CRUD operations with MongoDB integration.
  - Developed features to add, update, and delete recipes through a Node.js and Express backend connected to MongoDB.
  - Implemented Favorites section using React state management for quick access to preferred recipes.
  - Utilized React Router for navigation and React hooks (useState, useEffect, useNavigate) for dynamic UI updates.
- **Market Basket Analysis:** *Python, MLxtend, Pandas, Seaborn*
  Designed a data mining model to uncover hidden purchase relationships between items in supermarket data.
  - Extracted item-level transaction data from my own online grocery orders and visualized top product combinations.
  - Applied the Apriori algorithm using MLxtend to identify frequent itemsets and generate association rules.
- **Spotify Music Recommender:** *Python, Pandas, Scikit-learn, HTML, CSS, JavaScript*
  Built a content-based recommendation engine that suggests songs based on user-selected preferences.
  - Collected and preprocessed Spotify track features (such as tempo, energy, and danceability) using Pandas.
  - Computed cosine similarity scores to identify and recommend similar tracks dynamically.
  - Developed an interactive web interface using HTML, CSS, and JavaScript for song input and recommendation display.
- **Clinic Management System:** *HTML, CSS, JavaScript, Firebase*
  Developed a responsive and real-time web application for managing clinic operations efficiently.
  - Implemented secure login and role-based access for doctors and receptionists using Firebase Authentication.
  - Integrated Firestore Database to store and manage users, appointments, and billing details.

Technical Stack

- **Programming Languages:** Python, Java, C
- **Web Technologies:** HTML, CSS, JavaScript, Flask, React, Node.js, Express.js, React Native
- **Databases:** MySQL, MongoDB, Firestore
- **AI / ML Tools:** TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, MediaPipe

Certifications and Courses

- **IBM AI Developer Professional Certificate:** IBM — October 2024 - January 2025
- **GenAI Study Jams:** Google Developer Groups — October 2024 - November 2024
- **Web Development:** Unified Mentor Private Limited — June 2024 - August 2024
- **Google AI Essentials:** Google — June 2024