K ANISHA

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Pf https://anisha-0401.github.io/Portfolio/

ABOUT ME

A passionate Computer Science and Engineering student with a specialization in Data Science, driven by a strong interest in data-driven solutions and emerging technologies. Enthusiastic about exploring various technical domains, leveraging adaptability, analytical thinking, and a problem-solving mindset to effectively address real-world challenges.

SKILLS

- Programming Languages : Python, R, SQL
- Data Analysis & Visualization : Power BI, Tableau, Microsoft Excel
- Web Development : HTML, CSS
- Machine Learning & AI : Supervised & unsupervised Learning , Model Evaluation

- Communication Skills
- Quick Learning and Adjustment
- Team Coordination
- Time Management

EDUCATION

- SATHYABAMA UNIVERSITY
  BE CSE with Specialization
  in Data Science
  Current CGPA(3rd Year) - 9.24

  2022–2026

- Zion Matriculation Hr. Sec. School
  Senior Secondary Matriculation
  87%

  2020–2022

- Zion Matriculation Hr. Sec. School
  Secondary Matriculation
  86%

  2019–2020

PROJECTS

Sign Language Chatbot (ASL)

Developed an ASL chatbot that allows users to input hand gestures recognized through MediaPipe and a machine learning model, converting them into text. The chatbot responds in text and voice while an animated avatar signs the answers in ASL, creating an accessible and engaging experience for both signers and non-signers. Technologies used include Python, TensorFlow, React.js, Text-to-Speech (TTS) and avatar animation.

Ecommerce Gift Shop Website

Developed an eCommerce platform specializing in personalized and handcrafted gifts, featuring categories like Anniversary, Birthday, Special Combos, and Handmade Crafts. Built using HTML, CSS, JavaScript, and Firebase, ensuring a secure authentication system, real-time database, dynamic shopping cart, and role-based access for efficient management. Designed for a seamless user experience with responsive UI and secure checkout.

Movie Recommendation System

Developed an AI-powered chatbot that provides personalized movie recommendations based on user preferences. Built using Natural Language Processing (NLP) and integrated with a movie database, the chatbot suggests films by genre, mood, or user input. Implemented using Python, Machine Learning and chatbot frameworks, ensuring an interactive and user-friendly experience.

Gender and Age Detection

Developed a real-time computer vision application using OpenCV and pre-trained deep learning models (Caffe) to detect human faces from webcam input and accurately predict their age group and gender. Implemented face detection using OpenCV's DNN module and integrated age/gender classification networks with efficient preprocessing and display of results.

Glide Gesture - Virtual Keyboard and Mouse

Developed a real-time hand gesture recognition system using MediaPipe, OpenCV, and PyAutoGUI to control system functions like mouse navigation, volume, brightness, and scrolling. Integrated a voice-activated chatbot that accepts natural language prompts to launch applications or games (e.g., Hill Climbing Game) which can then be fully controlled through intuitive hand gestures, enabling a seamless, touch-free user experience.

Legal Document Summarizer

Built a Streamlit-based web application that processes legal documents (PDF/DOCX), extracts text and uses Gemini 2.0 Flash to generate structured outputs including a summary, key clauses and a glossary of legal terms. Integrated PDF/DOCX parsing, JSON handling and dynamic rendering of tables and explanations for enhanced usability.

YouTube Comment Analyzer

Built an interactive web application to analyze the sentiment of YouTube video comments using Hugging Face's Transformers and the YouTube Data API. Implemented comment extraction from video URLs, real-time sentiment classification (positive, negative, neutral) and structured result display in a Gradio-powered interface. Designed a user-friendly frontend with adjustable comment limits and robust error handling for invalid URLs or API issues. Enables quick public opinion analysis on any video, useful for content creators, marketers, and researchers.

Text Analyzer

Developed an interactive AI tool that analyzes and summarizes .txt documents or manually entered text using Google's Gemini 2.0 Flash model. Integrated real-time text streaming, word count tracking, and downloadable result generation within a responsive Gradio interface. Designed robust input handling for both file uploads and text fields, ensuring flexibility and ease of use. Useful for quick content review, summarization and document analysis across various domains.

Poem Generator

Developed a web application using Gradio and Google's Gemini 1.5 Pro to generate Tamil poems from uploaded images. The app processes the image, extracts a descriptive summary using AI, and generates a creative Tamil poem based on that context. Integrated image handling, Base64 encoding, and natural language generation in a user-friendly interface.

CERTIFICATES

- Python for Data Science
- Introduction to DBMS
- GUVI SAWIT.AI Learnathon
- Data Visualization- TATA Group
- SQL for Data Science
- Python

ACHIEVEMENTS

- Member of ACM Student Chapter at Sathyabama
- Art Club Head in School