Tanmoy Patra

West Bengal, Ghatal | +91 7501564476 | tanmovpatra369@gmail.com

LinkedIn: linkedin.com/in/tanmov-patra-00b756236

GitHub: https://github.com/Tanmov023

 $Portfolio\ Website: \underline{tanmoypatraportfolio.freewebhostmost.com}$

Objective

As a passionate Computer Science student with a strong foundation in Python, Data Structures, some python libraries for Data Analysis, and Database Management, I have hands-on experience in developing AI-driven projects such as voice-activated assistants and real-time object detection systems using machine learning models like YOLOv8. I am also proficient in web development technologies and have built dynamic applications like a Spotify clone. Eager to leverage my skills and projects in machine learning, AI, and web development to contribute to innovative and impactful solutions.

Skills

Python

Extensive knowledge on OOP, File Handling, Exception Handling, Modules, Packages, Environment Setup, Libraries, Tools and Basic Shell Scripting on python.

DSA in Python

Strong foundation on DSA with knowledge about Time Complexity, ADT, Searching and Sorting Algorithm, Linked List, Stack, Queue, Tree, Graph, BFS and DFS.

Data Analysis with Python

Proficient in using NumPy, Pandas, and Matplotlib for data manipulation, analysis, and visualisation. Skilled in handling datasets, performing data preprocessing, and creating insightful visualisations.

DBMS in SQL

Proficient on Writing Queries, Joins & DDL, DML, TCL operation with good understanding of R-DBMS concept like constraints, table, Normalization etc.

- Basic Website designing
 - > HTML : Proficient in html structure, attributes, from, list, tags etc.
 - > CSS: Good Knowledge of CSS selector, Box model, flex, position, grid, animation etc.
 - > JavaScript : proficient in DOM concept with good knowledge on methods, array, objects, promises etc.

Projects

- Voice-activated AI assistant
 - ➤ A Python-based voice-activated AI assistant integrating multiple python libraries like speech recognition, pyttsx3, google.generativeai, os, webbrowser, subprocess and datetime.
 - ➤ GitHub uploaded code
- Real-Time Object Detection with YOLOv8, OpenCV, and cvzone
 - This project implements real-time object detection using the YOLOv8 model, OpenCV, and cvzone. It captures video from a webcam, detects objects in the frame, and draws bounding boxes with labels and confidence scores. The script also supports video file input.
 - ➤ GitHub uploaded code
- Spotify Clone Web
 - ➤ Developed a Spotify clone using HTML, CSS, and JavaScript that replicates core features of the music streaming platform. The application supports playing pre-uploaded music with a responsive design and custom playbar for music control. Features dynamic album displays and song playlists, allowing users to browse and play songs seamlessly.
 - ➤ Website Link
 - ➤ GitHub uploaded code

Education

❖ B. Tech : Computer Science and Engineering		
College of Engineering and Management, Kolaghat	Pursuing	2021-Pursuing
Higher Secondary Education : WBCHSE Board		
Hat-Sarberia Dr Bidhan Chandra Roy Smriti Sikshaniketan (H. S.)	82%	Completed in 2021