Tanmoy Patra

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Objective

As a passionate Computer Science student with a strong foundation in Python, Web Development, and Database Management, I have hands-on experience in building dynamic and responsive web applications using Python, MySQL, HTML, CSS, and JavaScript, along with practical exposure to Machine Learning. I have developed AI-driven projects such as a voice-activated assistant and a fully responsive, user-friendly music player website inspired by Spotify. I am eager to design scalable backend systems, create engaging user interfaces, and integrate APIs to deliver efficient and innovative full stack solutions.

Education

❖ B. Tech : Computer Science and Engineering

College of Engineering and Management, Kolaghat	7.82	2021-2025

❖ Higher Secondary Education : WBCHSE Board

Hat-Sarberia Dr Bidhan Chandra Roy Smriti Sikshaniketan (H. S.)	82%	Completed in 2021

Skills

❖ Python

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

❖ MySQL

Proficient in writing queries, joins, and DDL, DML, and TCL operations, with a strong understanding of RDBMS concepts such as constraints, tables, and normalization.

❖ Web Technology

Proficient in HTML, CSS, and JavaScript with hands-on experience in creating responsive, visually appealing, and interactive web pages focused on user experience and modern design principles.

❖ DSA

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

❖ Git & GitHub

Proficient in version control and collaborative development using Git and GitHub for code management, branching, merging, and maintaining project repositories in team and individual environments.

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. Source code

❖ Spotify Clone Web App

➢ Developed a responsive Spotify-like music player using HTML, CSS, and JavaScript with dynamic playlist rendering, album browsing, and interactive playback controls for a smooth user experience. Source code

❖ Real-Time-Fruit-Detection-and-Weight-Prediction

➢ Developed a real-time system using YOLOv9 and OpenCV to detect fruits and predict weight using a custom ML model trained on a self-created dataset. Integrated with a Flask-based web frontend and Python backend. Source code