Taniya
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ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Sept, 2022 - Jan, 2026	B.TECH in CSE	Graphic Era Hill University, Dehradun	8.10/10
Apr, 2020 - Mar, 2021	C.B.S.E	Jawahar Navodaya Vidyalaya, Tehri	90.00 %
Apr, 2018 - Mar, 2019	C.B.S.E	Jawahar Navodaya Vidyalaya, Tehri	93.40 %

PROJECTS

- **Speech-to-Text and Text-to-Speech Converter (Nov,2023-Jan,2024) :** Developed a web-based Speech-to-Text and Text-to-Speech converter using HTML, CSS, and JavaScript with the Web Speech API. It supports multiple enabling accurate speech recognition and synthesis. Features include dynamic voice selection, a responsive interface, and smooth animations. The Speech Synthesis API handles text-to-speech, while the Speech Recognition API ensures precise speech-to-text conversion.
- **Calorie Burnt Prediction (Apr,2024-May,2024):** Developed a Machine Learning model for the prediction of calorie burnt based on an exercise-related dataset downloaded from Kaggle. This project involves preprocessing, EDA(exploratory data analysis), model training, and evaluation using Python and XG Boost regressor algorithms. This algorithm gives a mean absolute error of approximately 2.72.
- **File Compression and Decompression (June, 2024 - July, 2024) :** Developed a Python application for file compression and decompression using Huffman coding. Implemented a GUI with Tkinter to allow users to easily compress text files into binary format and decompress them back to their original state. The project involved building a binary tree for encoding, managing file input/output, and handling errors related to file encoding.
- **Leaf Detection System using open CV python(Nov,2024-Jan,2025):** Designed and implemented a leaf detection and classification system using Python, OpenCV, and TensorFlow. The project involved preprocessing leaf images, training a CNN for classification, and deploying a real-time analysis module with webcam integration, showcasing expertise in computer vision and real-time machine learning applications.

TECHNICAL SKILLS

- **Languages Python C, C++, Python, Java.**

SOFT SKILLS

- **Time Management**
- **Problem Solving**
- **Resilience and Teamwork**

SCHOLASTIC ACHIEVEMENTS

- **RESEARCH PAPER-** Wrote a result-oriented research paper on the Leaf Detection System using OpenCV Python. A comparative analysis has been done between different algorithm like CNN, SVM, ANN, and KNN, and based on the performances of these algorithms, it is concluded that CNN performs best among them with 82% accuracy.
- **NPTEL ONLINE CERTIFICATION COURSE**- Completed Developing Soft Skills and Personality course through Swayam.
- **AWS CERTIFICATION COURSE**- Completed AWS Cloud Practitioner Essentials course Through Amazon Web Services.
- Participated in coding competitions organized by the University.