

SIDDHANT GUPTA

Dehradun, Uttarakhand, India, 248001

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Education

Graphic Era Hill University, Dehradun

Bachelor of Technology in Computer Science

August 2021 – August 2025

8.01/10

Times World School, Dehradun

Intermediate

April 2020 – April 2021

8.68/10

Times World School, Dehradun

Matriculation

April 2018 – April 2019

9.00/10

Technical Skills

Languages: C, C++, Python, SQL

Data Analysis: Numpy, Pandas, Seaborn, Matplotlib

Web Development: HTML, CSS, Javascript, Xampp

Projects

Text Summarization | Python, Natural Language Processing, Flask

[Live Link](#)

- Built an extractive based **text-summarization** NLP system which summarizes text up to **50%**.
- Investigated testing of **3** extractive summarization techniques including **frequency count method**, **TF-IDF method** and **LSA method**.
- Implemented a user-friendly web interface using streamlit for enhanced usability.

File Compressor Huffman Encoding | Python, Flask, C++

[Live Link](#)

- Engineered a **file compressing** system using **Huffman Encoding Algorithm**.
- Incorporated data encoding algorithms to achieve **30% reduction** in file size.
- Leveraged **3 data structures**, including **Binary Trees**, **Maps**, and **Heaps**, to optimize data processing and compression.
- Developed seamless connection between the backend compression algorithm and the frontend interface through **Flask**.

Crop Recommender System | Python, Machine Learning

[Live Link](#)

- Designed a crop recommendation system that analyzes **7 key parameters** to provide tailored crop suggestions.
- Standardized features in the **2200 data point** dataset across **22 distinct crops** using **StandardScaler**.
- Evaluated **10** supervised machine learning algorithms, with **Random Forest Classifier** achieving the highest performance at **98% accuracy**.

Book Recommender System | Python, Machine Learning

[Live Link](#)

- Developed a collaborative based book recommendation system.
- Applied **cosine similarity metric** to evaluate recommendations based on these **706 books** and **810 users**.
- Enhanced the recommender system by integrating a popularity-based feature that recommends **top 50 books** based on book ratings.
- Deployed the recommender model to a website using **Flask**, improving user experience and accessibility.

Certificates

AWS Machine Learning Terminology and Process

June 2024

AWS Skill Builder

Introduction to Natural Language Processing

August 2024

Infosys Springboard