Shivam Sinha

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Education			
Course Name	**Duration**	**University/School/Board**	**Percentage/CGPA**
B.Tech. Software Engineering	2022-Present	Delhi Technological University (Formerly DCE)	CGPA: 9.48 (5 Semester Aggregate)
Class XII	2021-2022	Ch. Baldev Singh Model School, New Delhi / CBSE	96%
Class X	2019 - 2020	DAV Public School, Sirmaur, Himachal Pradesh / CBSE	96.4%

Technical Skills

- **Programming Languages**: C, C++ (Default), Python, HTML.
- **Computer Science Basics**: Data Structures and Algorithms, OOPS, Software Engineering, Software Testing.
- **Systems and Architecture**: Operating Systems, DBMS.
- **Advanced Competencies**: Graph Algorithms, Machine learning, Natural Language Processing.
- **Libraries and Tools**: GitHub, StarUML, Scikit-learn, NumPy, Pandas, Matplotlib, TensorFlow, Spacy, NLTK.

Academic Projects

- **Resume Classification using NLP and Machine Learning** Github Link
  - **Key Tools:** Python, scikit-learn, TF-IDF, Natural Language Processing, NLTK Library.
  - **Description:** Developed a system to automatically classify **962** resumes into **25** job categories using NLP and Machine learning. Utilized Python for **text preprocessing**, TF-IDF for feature extraction, and **Random Forest**, **Logistic Regression**, **SVM** and other classifiers for classification. Achieved **high accuracy** of **99%** in categorizing resumes, streamlining the recruitment process.

- **Hate Speech Detection Using Machine Learning & Deep Learning** Github Link
  - **Key tools**: Python, NLP, Scikit-learn, TensorFlow, Keras, Transformers (BERT), Pandas, NumPy, Matplotlib, Seaborn**.**
  - **Description:** Developed a robust **hate speech detection** model leveraging both traditional machine learning (**Logistic Regression, Random Forest, Gradient Boosting**) and advanced **deep learning techniques** (**Neural Networks**). Implemented **NLP preprocessing techniques** like tokenization, lemmatization, stop word removal, and **TF-IDF vectorization** to create **52793 features**. Evaluated models using accuracy, precision, recall, F1-score, and **confusion matrices**. Achieved enhanced performance with **95% accuracy** with a motive to classify Hate speech out of the social platforms.

Certificates

- **Supervised Machine learning Course (Stanford University):** Coursera Link
  - Gained proficiency in developing foundational Regression and Classification models, including **Linear Regression**, Polynomial Regression, **Logistic Regression**.
- **Advanced learning Algorithms Course (Stanford University):** Coursera Link
  - Focused on **Deep learning,** including **Neural Networks**, **Decision trees** and **Ensemble Learning.**
- **Vihaan Hackathon, IEEE DTU:** Google drive Link
  - Secured **17th position** among **1200+ participants** in **North India's largest** 36-hours hackathon VIHAAN 7.0 held at Delhi Technological University, New Delhi
- **16th-British Parliamentary Debate, at IIT Bombay:** Google drive Link
  - Participated, As an Adjudicator and reached the last round among **500+** Participants.

Achievements

- Code 360 by Coding Ninjas: Amassed over **20,000 Points** and **solved 260+ problems**, earning multiple prestigious **Specialist** and **Master badges** in **Data Structures and Algorithms**.
- Leetcode: Solved over **500+ challenging problems**, earning the **multiple esteemed Badge** and currently among **Top 13%** Leetcode users with a **contest rating - 1696** worldwide.