

# JAYANT SINGH

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## Education

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### Thapar Institute of Engineering and Technology

Bachelor of Engineering in Computer Engineering – 7.86 CGPA (Till 6th Semester)

Punjab, India

Oct 2021 – May 2025

### Delhi Public School

CBSE – 94.3% (Grade 10)

Jammu, India

Jul 2019

### Delhi Public School

CBSE – 96.3% (Grade 12)

Jammu, India

Jul 2021

## Projects

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### Car Insurance Fraud Detection — Pandas, Matplot-Lib, Scikit-Learn

Data Analysis and Machine Learning

- Designed and implemented a machine learning model to identify fraudulent insurance claims, as binary classification.
- Performed Exploratory Data Analysis, preprocessing techniques including encoding to clean and prepare the dataset.
- Implemented multiple classification models, with Random Forest giving highest accuracy of 90%.

### Web Series Sentiment Analysis — Beautiful Soup, Matplot-Lib, TextBlob,NLTK

Sentiment Analysis and NLP

- Conducted web scraping using Beautiful Soup to gather web series transcripts and created a comprehensive corpus.
- Utilized TextBlob to analyze transcript's sentiment, calculating polarity (negative to positive) and subjectivity (factual to opinionated), and visualized results with matplotlib.
- Enhanced sentiment analysis by employing NLTK to split transcripts into smaller segments, allowing detailed examination of sentiment trends changing over time.

### Shopper Purchase Prediction Analysis — Pandas, Numpy, Scikit-Learn

Data Analysis and Machine Learning

- Focused on developing a predictive model capable of determining whether a customer visiting an online shopping website will culminate their visit with a purchase.
- Deployed multiple models with Extra Tree classifier algorithm achieving an accuracy of above 85%.

## Technical Skills

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**Languages:** C, C++, Python

**Developer Tools:** VS Code, Google Collab, SQL, MySQL

**Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Scikit-Learn, Seaborn

## Relevant Coursework

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|---------------------|-----------------------|-----------------------|------------------------|
| • Data Structures   | • Data Analysis       | • Machine Learning    | • Discrete Mathematics |
| • Operating Systems | • Database Management | • Data Pre Processing | • OOPS                 |

## Position Roles and Achievements

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|---|-------------------|
| • Marketing Head at Student Alumni Interaction Cell TIET  | 05/2022 - 08/2022 |
| • Event Planner and overall head of Troubleshoot event organized by Student Alumni Interaction Cell | 02/2023           |

## Certifications

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- Completed a series of certified certifications and hands-on guided projects in Data Science through Coursera, covering topics like data analysis and visualization.
- Currently a Notebooks and Dataset expert on Kaggle.