

# Ishaan Vats

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## Education

- **Shaheed Sukhdev College of Business Studies, University of Delhi** 2024 – Present  
B.Sc. (Hons.) Computer Science  
CGPA: 6.45
- **St. Xavier's Senior Secondary School, Raj Niwas Marg, Civil Lines, Delhi – 110054** 2024  
Commerce stream with Mathematics and Informatics Practices

## Projects

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|--|--------|
| <b>Credit Risk Default Prediction</b>  | GitHub |
| • Built a supervised classification model to predict loan default risk using financial and customer features.                    |        |
| • Performed data preprocessing, feature engineering, and model evaluation using metrics such as accuracy and ROC-AUC.            |        |
| • Implemented models including Logistic Regression and Random Forest to optimize predictive performance.                         |        |
| <b>Telco Customer Churn Prediction</b>   | GitHub |
| • Developed a machine learning pipeline to predict customer churn using classification algorithms.                               |        |
| • Conducted exploratory data analysis (EDA) and handled class imbalance through preprocessing techniques.                        |        |
| • Improved retention prediction accuracy using ensemble learning methods.  |        |
| <b>Restaurant Reviews Sentiment Analysis (NLP)</b>   | GitHub |
| • Built a sentiment classification model using NLP techniques including text cleaning, tokenization, and vectorization (TF-IDF). |        |
| • Trained and evaluated classifiers such as Naive Bayes and Logistic Regression.   |        |
| • Achieved high classification accuracy on labeled restaurant review dataset.  |        |
| <b>Resume Classification using Machine Learning</b>  | GitHub |
| • Implemented a text classification system to categorize resumes into job domains.   |        |
| • Applied NLP preprocessing, feature extraction, and supervised learning techniques.   |        |
| • Evaluated performance using confusion matrix and classification metrics.   |        |
| <b>Country Clustering using Unsupervised Learning</b>  | GitHub |
| • Applied K-Means clustering to group countries based on socio-economic indicators.  |        |
| • Performed feature scaling and dimensionality reduction for improved clustering performance.                                    |        |
| • Visualized clusters using PCA-based 2D projection.   |        |

## Technical Skills

**Programming:** Python, C++, SQL

**Machine Learning:** Scikit-learn, Supervised & Unsupervised Learning, Model Evaluation

**NLP:** TF-IDF, Text Preprocessing, Sentiment Analysis

**Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn

**Tools:** Jupyter Notebook, Git, GitHub

## Positions of Responsibility

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|---|---------------------|
| <b>Class Representative (CR), Shaheed Sukhdev College of Business Studies</b>                       | 2024 – Present      |
| • Acted as the primary communication bridge between students and faculty for academic coordination. |                     |
| <b>Prefect, St. Xavier's Senior Secondary School</b>  | Apr 2023 – Jan 2024 |
| • Assisted school administration in student coordination and event execution.                       |                     |