

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

- Credit Risk Default Prediction** 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.
- Telco Customer Churn Prediction** 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.
- Restaurant Reviews Sentiment Analysis (NLP)** 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.
- Resume Classification using Machine Learning** 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.
- Country Clustering using Unsupervised Learning** 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

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