

# Vishal Gupta

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## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR

*B.Tech in Electrical Engineering*

Nov 2022 - Present

*Current GPA: 7.97*

### KENDRIYA VIDYALAYA No.2(Kanpur)

*PCM+Computer Science*

March 2021

*Aggregate Percentage: 95.4%*

## EXPERIENCE

### RESEARCH INTERN

Oct 2024 - Present

*IIT Hyderabad*

- Annotated images to prepare datasets for object detection tasks.
- Implemented YOLOv8 to develop an object detection model, achieving 80% accuracy.
- Enhanced the dataset through iterative improvements to ensure higher detection precision.

## PROJECTS

### Diabetes Prediction System | *Kaggle, Pandas, NumPy, Accuracy score*

July 2024

- Implemented a diabetes prediction model using Support Vector Machine (SVM), achieving high accuracy in diagnosing the disease.
- Performed data preprocessing, including feature scaling with StandardScaler, to improve model performance.
- Achieved 78% accuracy in predicting diabetes using a supervised learning approach.
- **GitHub Repo**

### Movie Recommendation System | *Kaggle, Numpy, Pandas, TfidfVectorizer*

June 2024

- Developed a movie recommendation system using text similarity techniques to match user preferences with movie descriptions.
- Employed TF-IDF vectorization to transform movie descriptions into numerical representations, enabling precise content comparison.
- Achieved a significant increase in recommendation relevance, leading to higher user engagement on the platform.
- **GitHub Repo**

### Superstore Sales Analysis Project | *Tableau, GitHub*

March 2024

- Conducted comprehensive analysis of Superstore sales data to identify key trends and optimization opportunities.
- Utilized descriptive statistics and data visualization techniques to summarize sales performance across regions.

## TECHNICAL SKILLS

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

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn

**Machine Learning Algorithms:** Linear Regression, Logistic Regression, K-Nearest Neighbors (KNN), Decision Tree, Support Vector Machine (SVM), Ridge Regression

**Natural Language Processing (NLP):** TfidfVectorizer, Text Preprocessing, Tokenization

**Data Visualization:** Tableau, Excel

**Tools:** StandardScaler, OpenCV, Image Annotation, YOLOv8

## ACHIEVEMENTS

- Secured 3rd place in a monthly coding contest hosted by Branch Wise, demonstrating proficiency in problem-solving and algorithmic skills.
- Solved over 500+ DSA problems on LeetCode with a rating of 1700+.

## EXTRACURRICULAR

**Seed | PR Head**

Oct. 2023 – Present

Led initiatives to enhance electrical engineering skills through workshops, seminars, and collaborative projects.

**Media Cell | Member**

Feb. 2024 – Present

Responsible for covering and documenting college events, including reporting and creating media content.