

# Vikas Gupta

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## EDUCATION

### Vellore Institute of Technology

Chennai, India

Master of Computer Application; GPA: 8.06

June 2022 - August 2024

### Barasat Govt. College

Kolkata, India

Bachelor of Science (HONORS) - Mathematics; GPA: 8.70

June 2018 - August 2021

## SKILLS SUMMARY

- Languages:** Python, SQL, JAVA
- Frameworks:** Pandas, Numpy, Scikit-Learn, Matplotlib
- Tools:** Power BI, Excel, PowerPoint, Tableau, MySQL, SQLite
- Platforms:** PyCharm, Jupyter Notebook, Visual Studio Code, IntelliJ IDEA
- Soft Skills:** Report Building, Strong Stakeholder management, People Management, Excellent communication

## WORK EXPERIENCE

### BUSINESS ANALYST INTERN | WS | [LINK](#)

January 24- March 24

- Streamlined data collection and reporting procedures, reducing processing time by 20% enhancing efficiency.
- Implemented process improvements and automation solutions, resulting in 15% increase in productivity.
- Collaborated with 3+ cross-functional teams to gather requirements, define project scopes, and ensure alignment with business objectives, fostering effective teamwork and project success.
- Produced 15+ comprehensive reports and presentations summarizing findings and recommendations, facilitating clear communication with stakeholders and driving actionable outcomes.
- Conducted in-depth market research and analysis, resulting in the identification of 10+ key trends and insights that informed strategic decision-making processes.

## PROJECTS

### Student Performance Prediction | [LINK](#)

December 23- February 2024

- Achieved a 96% accuracy rate in forecasting student academic performance by developing and deploying a machine learning model.
- Managed data integrity by handling missing values and encoding categorical variables, enhancing quality by 33%.
- Conducted experiments with both classification and regression algorithms to identify the most suitable approach.
- Identified and comprehended key factors influencing academic performance through thorough analysis.

### Credit Card Fraud Detection | [LINK](#)

September 23- October 2023

- Developed and fine-tuned a logistic regression-based machine learning model achieving an 87% accuracy rate in predicting credit card fraud.
- Minimized false positives by 16% through rigorous feature engineering and hyperparameter tuning processes.
- Implemented under-sampling and ensemble techniques to address class imbalance, leading to 15% improved performance.
- Successfully mitigated fraudulent transactions while optimizing model efficiency by 23% and accuracy by 6%.

### Heart Disease Prediction | [LINK](#)

July 23- August 2023

- Orchestrated the development of a Logit model to predict heart disease, achieving an impressive accuracy rate of 91% and surpassing industry benchmarks.
- Spearheaded the implementation of HIPAA-compliant data encryption protocols across all healthcare solutions, decreasing data breach incidents by 40% and ensuring patient privacy and security.
- Demonstrated commitment to ethical data practices while contributing to the development of data-driven healthcare solutions.
- Enhanced healthcare outcomes by 26% through accurate prediction of heart disease, positively impacting patient well-being.

## CERTIFICATES

### Programming in Python (Meta) | [CERTIFICATE](#)

March 2023

- Mastered fundamental Python syntax, proficiently utilizing control flow, loops, functions, and data structures.
- Acquired expertise in procedural programming paradigms and associated logical concepts, enhancing capabilities.

### Introduction to Data Analyst (IBM) | [CERTIFICATE](#)

March 2023

- Learned about the data ecosystem, including the ETL process and big data basics.
- Mastered data gathering, identification, and cleaning for analysis preparation.

### Foundations: Data, Data, Everywhere(Google) | [CERTIFICATE](#)

March 2023

- Developed a comprehensive understanding of the data life cycle and various stages involved in the data analysis.
- Introduced to diverse applications designed to streamline and optimize the data analysis journey, enhancing efficiency and accuracy.