

Vishal Bajpai

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Professional Summary

Motivated and detail-oriented Engineering Student with a strong foundation in data manipulation, statistical analysis, and visualization. **Proficient in Python, SQL, and Excel**, with experience in transforming raw data into actionable insights. Seeking an opportunity to leverage my technical expertise and problem-solving abilities in a dynamic and growth-oriented environment.

Key Skills

- Proficient in handling, transforming, and preparing raw data for analysis using **Python (Pandas, NumPy) and SQL**.
- Skilled in identifying trends, patterns, and insights using statistical methods and visualization tools like **Matplotlib, Seaborn, and Power BI**.
- Experience in writing efficient SQL queries for *data extraction, manipulation, and analysis* in relational databases.
- Ability to create interactive dashboards and meaningful visual representations using **Power BI**.

Education

PSIT, Kanpur, B.Tech in Computer Science Engineering Nov 2021 - present
• CGPA: 7.10
• **Coursework:** Data Structure Algorithms, Operation system , Machine Learning Techniques

Projects

FiberFlaws-Fabric Defect Detection using Machine Learning Credential
• Developed a convolutional neural network (CNN) with X layers to detect and classify fabric defects, improving defect identification accuracy to 80
• Processed and analyzed a dataset of 50,000+ fabric images, optimizing preprocessing techniques to enhance model performance.
• Reduced model training time by 30 percent and improved inference speed, enabling faster defect detection for real-time applications.

Algorithm Trading Prediction Model Credential
• Designed and implemented 3+ algorithmic trading models, optimizing investment strategies to enhance returns by 50 percent
• Applied statistical analysis and machine learning techniques to develop automated trading systems, improving trade execution efficiency by 70 percent

Safebite Allergen Detection Using Machine Learning Credential
• Implemented and evaluated 5+ machine learning models on a dataset of 10,000+ allergen-labeled food samples, achieving a detection accuracy of 92
• Enhanced model efficiency, reducing false positives by 15 percent and improving processing speed by 30 percent, ensuring accurate and rapid allergen identification for consumer health.

Technologies

Languages: C++, C, Python, SQL.

Tools: Jupyter Notebook, MYSQL, Power BI, Excel, GitHub, ETL Tools

Certificates and Achievements

DeepLearning.AI- Introduction to TensorFlow for Machine Learning and Deep Learning Credential

Google Data Analytics Capstone:A Case Study Credential