

# Sanskriti Rathaur

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## Professional Summary

Enthusiastic and detail-oriented Data Analyst with a strong foundation in SQL, Python, and data visualization tools. Skilled in handling datasets, performing exploratory analysis, and delivering actionable insights. Seeking an opportunity to apply analytical skills and contribute to data-driven decision-making.

## Skills Overview

- **Programming Languages:** Python, SQL, HTML, CSS, DAX
- **Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
- **Data Visualization & Management:** Power BI, SQL Server, PostgreSQL, MS Excel
- **Tools & Techniques:** Git, GitHub, Streamlit, AWS, Jupyter Notebook, Machine Learning, A/B Testing

## Education

- Allenhouse Institute of Technology**, BTech in Computer Science Sept 2021 – June 2025
- **CGPA:** 7.1/10
  - Coursework: Programming skills, Databases and system, Analytical skills.

## Experience

- Data Science Intern**, Celebal Technology –Remote May 2024 – Aug 2024
- Performed customer segmentation using clustering algorithms and feature engineering on online retail data, optimizing marketing strategies.
  - Built a recommendation system using machine learning models, driving a 15% increase in average order value.
  - Extracted actionable insights through statistical analysis, demand forecasting, and predictive modeling using Python.

## Certification

- Data Analytics Course** March 2024
- PWSkills*, Gained Expertise in SQL,Power bi,MS excel,Python,AWS,Machine Learning  
10.1109/TASC.2023.3340648

## Projects

- SQL Airport Analysis** github.com/name/repo
- Developed and optimized SQL queries to analyze airport operations, improving resource allocation strategies. Focused on data extraction, transformation, and reporting to streamline airport management processes
  - **Tools Used:**SQL (MySQL), Microsoft Excel,Power Bi
- Credit Card Dashboard** github.com/name/repo
- Processed and analyzed transaction data to detect fraudulent activities and identify spending patterns. Used Power BI for creating interactive dashboards and visualizations to track fraud trends and transaction behaviors
  - **Tools Used:** Power BI ,DAX
- Store Sales Analysis** github.com/name/repo
- Analyzed 10,000+ sales records to identify key customer trends, including a 65% contribution from women and a 50% contribution from adults (30-49 years); developed actionable recommendations to target key demographics using Excel dashboards.
  - **Tools Used:** Microsoft Excel(Data cleaning, pivot tables,Dashboards)

## Wafer Fault Detection

[github.com/name/repo](https://github.com/name/repo)

- Built predictive models to analyze sensor data and detect anomalies in real-time systems. Applied feature engineering to create relevant features for model training, utilizing algorithms like Random Forest and Isolation Forest for fault detection. Employed statistical methods to improve model accuracy and reliability for detecting faults in sensors before system failure.
- **Tools Used:** Python (Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn), Jupyter Notebook, Mongo db, AWS

## Extracurricular activities

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**Code Saga Participant:** Utilized Python, SQL, and data analysis techniques to solve real-world problems in a competitive coding environment.

**Volunteer, Code Saga:** Coordinated event logistics, provided technical support, and facilitated participant engagement in a large-scale tech competition .