

TANYA SINGH

Data Analyst

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PROFESSIONAL SUMMARY

Data Analyst skilled in transforming raw data into actionable insights using Python and SQL. Experienced in data cleaning, exploratory data analysis (EDA), and presenting findings through clear visualizations. Strong analytical thinker with a focus on data-driven decision-making, efficiency, and innovation.

TECHNICAL SKILLS

Languages: Python (NumPy, Pandas, Matplotlib), C++, JavaScript

Databases: SQL, MongoDB (NoSQL), SQLite

Tools: Power BI, Tableau, Power Query, Jupyter Notebook, Git, GitHub, Visual Studio Code, Excel

Concepts: Data Cleaning & Preprocessing, Data Visualization, OOPs, SDLC, Data Structures, DBMS

PROFESSIONAL EXPERIENCE

Data Analyst | Skillyards (Dec 2024 – Present)

- Developed and maintained data-driven solutions using SQL and Python for data extraction, cleaning, and analysis.
- Designed and optimized relational databases to ensure high data integrity and performance.
- Automated repetitive reporting tasks and improved data processing efficiency using Python scripts.
- Collaborated with cross-functional teams to translate business requirements into actionable data insights and visual reports.

PROJECTS

Amazon Store Sales Dashboard (Power BI / Excel / DAX)

- Built an interactive sales-performance dashboard using Amazon sales data (orders, product category, profit, region, shipping & payment mode).
- Visualized total sales, quarterly growth, category-wise performance, regional distribution, customer segment trends, and return rate enabling easy identification of best-selling categories and high-profit segments.
- Delivered actionable insights: identified top-performing sub-categories (Phones, Chairs, Binders), revealed shipping/payment preferences, and highlighted regional sales concentration useful for sales strategy, inventory planning and marketing focus.

Student Enrollment Dashboard (Power BI / Python / Excel)

- Developed a dashboard to analyze student enrollment data from 123 colleges covering total enrollments, college-wise strength, gender distribution, top-performing colleges, and enrollment gaps.
- Used Python (Pandas) for data cleaning and preprocessing, Excel for organizing raw data, and Power BI for dynamic visualization and filtering by college to compare institutions.
- Enabled educational administrators to easily spot high-enrolment institutions, gender balances, and under-enrolled colleges supporting data-driven decisions for resource allocation.

Housing Market Insight Dashboard (Power BI / Excel / Data Visualization)

- Created a dashboard to analyze real-estate sale data: total houses sold, sale volumes, price trends, and property attributes (bedrooms, grade, condition, sale year, geography) across zip codes.
- Visualized distribution and trends in property sales enabling identification of factors affecting sale price, volume across regions, and temporal trends, aiding investment or policy decisions.
- Provided insights into housing-market dynamics, such as distribution by condition/grade, region-wise sale volume, and price influencing factors useful for real-estate analysis, market research, or investment decisions.

CERTIFICATIONS & TRAINING

- **Full-Stack Web Development** – PW Skills (MERN Stack) | 2023
- **Google IT Automation with Python** – Coursera | 2023
- **Machine Learning** – Internshala (Python, Regression, Clustering) | 2022
- **Core Java** – Prutor.ai (OOPs, Collections) | 2022
- **Android Development** – Udemy (Kotlin, Jetpack Components) | 2024

ACHIEVEMENTS

NPTEL Certifications:

- Software Testing (NPTEL Swayam)
- DBMS & SQL (Infosys Springboard)
- Internet of Things (NPTEL Swayam)
- Internet of Things Industry 4.0 (NPTEL Swayam)
- Developing Soft Skills and Personality Development (NPTEL Swayam)
- Speaking Effectively (NPTEL Swayam)

LANGUAGES

- English (Professional Working Proficiency)
- Hindi (Native)

EDUCATION

B.Tech (Computer Science) BBDITM, Lucknow 7.98	2024
Intermediate (PCM) Simpkins School, Agra 91.8%	2020
High School Simpkins School, Agra 92.6%	2018