

Surabhi Tiwari

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Objective

Data-driven M.Sc. Statistics student with practical exposure through a government internship and applied data science projects. Skilled in Python and R with a strong foundation in statistical modeling and data analysis. Seeking analytical roles where statistical reasoning and data-driven insights add business value.

Internship & Projects

Intern, Ministry of Statistics and Programme Implementation (MoSPI)

28 May 2025 – 25 Jul 2025

- Analyzed ASUSE 2025 survey data comprising over 50,000 records using R to generate sector-wise insights for official statistical reporting.
- Built automated data-cleaning workflows, achieving a 30% improvement in processing efficiency.
- Created and presented 5+ statistical visualizations using ggplot2 to support interpretation of findings.

Amazon Sales Data Analysis Dashboard — Tableau [Project Link](#)

- Developed an interactive Tableau dashboard to analyze sales trends, customer segments, product categories, shipping modes, and discount effectiveness.
- Performed data cleaning, exploratory analysis, and visualization on a dataset of 11,000+ records to derive business insights and managerial recommendations.

Titanic Dataset Exploratory Data Analysis (EDA) — Python (pandas, seaborn, matplotlib)

- Performed end-to-end data cleaning including missing value imputation, outlier handling, and categorical encoding.
- Analyzed relationships between age, gender, passenger class, and survival outcomes.

Decision Tree Classifier on Bank Marketing Dataset — Python (scikit-learn)

- Developed a decision tree classification model to predict customer subscription behavior with an accuracy of 82%.
- Applied feature selection, hyperparameter tuning, and validation techniques to improve model generalization.

Opinion Survey on Plastic Usage — Academic Project (BHU) (Excel) [Project Link](#)

- Designed and conducted a primary survey collecting responses from 500+ participants.
- Applied the Chi-Squared Test to examine associations between demographic characteristics and plastic usage behavior.

Skills

Statistical Analysis: Regression, Hypothesis Testing, Sampling Techniques, Multivariate Analysis

Programming: Python (Pandas, Matplotlib, NumPy, scikit-learn), R (tidyverse, ggplot2), SQL (Beginner)

Data Visualization: ggplot2, Matplotlib, Seaborn, Tableau, Power BI (Beginner)

Productivity Tools: MS Excel (Pivot Tables, VBA), PowerPoint, Word

Education

M.Sc. Statistics, University of Hyderabad

Jul 2024 – May 2026 (Ongoing)

Coursework: Time Series Analysis, Multivariate Analysis, Machine Learning with R

B.A. (Hons.) Statistics, Banaras Hindu University

CGPA: 8.65

Subjects: Probability, Linear Algebra, Real Analysis, Sampling

Certifications

- Deloitte Data Analytics Virtual Internship — [Deloitte](#)
- Indian Women and Mathematics (IWM) Regional Workshop on Research and Opportunities — [Indian Institute of Technology, Kanpur](#)
- SQL Workshop — TVASTR 25, [University of Hyderabad](#)
- Basic R Programming Workshop — [Banaras Hindu University](#)
- 100 Days of Code: The Complete Python Pro Bootcamp — [Udemy](#)