NIKITA SHARMA

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PROFESSIONAL SUMMARY

Data Science student with strong foundation in machine learning, statistics, and data analysis. Currently pursuing Post Graduate Diploma in Statistics with hands-on experience in Python, SQL, and predictive modeling. Demonstrated ability to formulate approaches to solve problems using algorithms and data exploration techniques. Passionate about applying statistical methods and machine learning to drive product improvements and business impact.

TECHNICAL SKILLS

Machine Learning:	Predictive Modeling, Classification Algorithms, Statistical Analysis, Feature Engineering, Experiments
Programming:	Python (Pandas, NumPy, Scikit-learn), SQL, R(Basic)
Data Analysis:	Data Exploration, Hypothesis Testing, Statistical Inference, Algorithms, Data Sources
Visualization:	Power BI, Tableau, Matplotlib, Seaborn, Plotly
Statistics:	Regression Analysis, Probability, Operations Research, Econometrics, Mathematics

DATA SCIENCE PROJECTS

Machine Learning Classification - Titanic Survival Prediction

- Formulated approach to solve binary classification problem using logistic regression algorithm achieving 81% accuracy
- Conducted comprehensive data exploration to discover patterns and opportunities within the problem area
- Applied feature engineering and statistical analysis to identify key predictors: gender, passenger class, and fare
- Interpreted results and validated approach through confusion matrix analysis and classification reports
- Proposed actionable insights for safety protocols based on model interpretation and business context

Business Intelligence Analysis - E-commerce Customer Behavior

- Used data exploration techniques to analyze Brazilian e-commerce dataset and answer 15+ business questions
- Developed complex SQL queries and Python algorithms to extract insights from multiple data sources
- Applied statistical methods to identify customer retention patterns and YoY growth opportunities
- Created data visualizations to communicate actionable insights to stakeholders
- Monitored and iterated on analysis to continuously improve findings and recommendations

Statistical Hypothesis Testing - Vendor Performance Analytics

- Designed and implemented statistical experiments to test performance differences between vendor segments
- Conducted hypothesis testing (t-tests) with $p < 0.001$ significance level to validate business assumptions
- Used correlation analysis and regression techniques to understand relationships in business data
- Developed automated reporting system improving data processing efficiency by 40%
- Collaborated with stakeholders to formulate problem approaches and present findings

PROFESSIONAL EXPERIENCE

Deloitte Data Analytics Virtual Experience 2024

- Gained practical experience in data extraction, manipulation, and business analytics
- Practiced stakeholder collaboration and presentation of data-driven insights
- Learned to formulate problem approaches and validate analytical methods

TATA Business Insights Visualization 2024

- Developed expertise in data visualization and communicating insights to stakeholders
- Learned to translate business requirements into analytical solutions

EDUCATION

Post Graduate Diploma in Statistics
2025 - 2026 (Expected)
Specializing in Data Science, Mathematics, Statistics, and Operations Research
Relevant Coursework: Statistical Modeling, Machine Learning, Data Analysis, Econometrics

B.Sc. (Hons) Chemistry
University of Delhi
Relevant Coursework: Quantitative Methods, Research Methodology, Data Analysis

CERTIFICATIONS

- Google Data Analytics Professional Certificate - Coursera (Expected 2025)
- Google: Ask Questions to Make Data-Driven Decisions - Coursera (2025)
- Google: Foundations: Data, Data, Everywhere - Coursera (2025)
- Deloitte Data Analytics Virtual Experience - Forage (2025)