

NISCHAY GAUTAM

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EDUCATION

Amity University Noida – Masters of Statistics, CGPA 9.17 2022-2024
Courses : Advance Statistical Inference, Probability Theory, Operation Research, Biostatistics, Advance Machine Learning, Stochastic processes, Multivariate Analysis, Survival Analysis, Python, R, SPSS, SAS.

Amity University Noida - Bachelor of Statistics, CGPA 9.69 2019-2022

Relevant EXPERIENCE

Convergent View Research & Consultancy – Data Analyst Intern Jan 2024 – May 2024

- Analyzed large-scale survey datasets, extracting insights to inform strategic decision-making.
- Utilized MS-SQL, IBM Survey Reporter, and IBM SPSS to extract, clean, transform, and standardize datasets for optimal analysis.
- Designed Power BI dashboards with 20+ visualizations, enhancing data accessibility by 30% to communicate survey findings. Utilized R for regression analysis and random foresting to deepen data insights and forecasting.
- Solved complex team challenges by implementing innovative solutions, resulting in a 25% increase in project completion rates and boosting team efficiency by 30% over four months.

Ministry of Statistics & Programme Implementation – Research Intern Jun 2023 - Aug 2023

- Led a data-driven research project at NITRD, Delhi's Biostatistics department.
- Analyzed NFHS-4 data, processing 600,000+ survey responses to uncover pivotal indicators of women's empowerment.
- Developed a Women Empowerment Index using advanced statistical modeling techniques.
- Employed SPSS, SAS, and MS Excel for meticulous data modeling and analysis, ensuring robust insights.

ACADEMIC PROJECTS

Elections Dashboard using Power Bi 2024

- To extract insights into voter demographics, party performance, and election outcomes over multiple election cycles.
- Uncovered assembly-wise analysis, party performance over the last five elections, constituency-wise maps, demographics-based analysis, winner analysis, and a breakdown of party types.
- Identified key areas of interest and improvement using ribbon charts, trendlines, pie-charts, maps(JSON format) and Key Influencers.

CAT Modeling for Insurance Risk Assessment 2024

- Developed catastrophe models to estimate potential losses from natural disasters.
- Analyzed historical data on natural disasters using Python and R to identify patterns and risk factors.
- Built predictive models using machine learning algorithms (Random Forest, XGBoost) to forecast future risks.
- Visualized risk assessment data using Power BI to support strategic decision-making for insurance companies.

Road Accidents Analysis & Severity Prediction 2022

- To investigate the relationship between road accidents and various factors, including time of day, road-types, and vehicle-types, using Correlation analysis for numeric and Cramer's V for categorical variables.
- Created data visualizations using Seaborn, Plotly.Exp, With ML Techniques (Random-Forest, KNN, XGBoost) using Python to facilitate easy understanding of complex data insights and model building with accuracy of 83%.
- Provided actionable recommendations for traffic management and road safety initiatives based on the analyzed data and insights.

Predictive analysis on Sales 2021

- Collected and analyzed data on past sales, production costs, and consumption figures, creating a sales analysis dashboard using MS-Excel.
- Applied Machine learning technique (Regression analysis) to forecast future trends using R programming.
- Investigated and quantified the impact of the Covid-19 pandemic on sales, contributing to strategic decision-making.
- Achieved a 95% data accuracy rate through meticulous collection and analysis of past sales, production costs, and consumption figures.

SKILLS

Programming Languages- Python(NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, SciPy, Plotply-exp), R(dplyr, ggplot2), SAS, SQL.

Tools- Power Bi, Power Query, MS- Excel(Advanced Excel), IBM SPSS, PostgreSQL, MS-SQL, Jupyter Notebook.

Technical Skills- Data Science & Analytics, Machine Learning Algorithms, Data visualization, Data modelling, Predictive analysis, Time-Series Analysis, NLP, Relational Databases, ETL, Generative AI.

Soft Skills- Problem-solving, Collaborative teamwork, Analytical skills, Communication

CERTIFICATIONS

Microsoft PL-300: Power Bi Data Analyst Associate (MICROSOFT) 2024

SAS Programming Essentials (SAS) 2024

Prompt Engineering for Generative AI (LinkedIn) 2024

Complete Machine Learning & Data Science with Python (UDEMY) 2023