

MANIKANDAN N
Data Analyst | Statistician | Data Scientist

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Summary

Experienced professional with a strong background in statistical analysis, data cleaning, and mapping datasets per regulatory standards. Proficient in utilizing tools like Python, SAS, R, SQL, Power BI, and SPSS for data preprocessing, visualization, modeling and analysis. Skilled in applying machine learning techniques like regression, classification, clustering and time series analysis. Adept at adhering to ICH GCP guidelines and validating programs to ensure compliance. Strong ability to derive insights from complex datasets and communicate findings effectively.

Experience

Azidus Laboratories Ltd., Statistician – Chennai, Tamil Nadu

Aug 2023 - Present

- Enhanced decision accuracy by 25% through data acquisition, consolidation, and advanced statistical methods and analysis.
- Developed and implemented statistical models, algorithms, and techniques, yielding insights that led to 15% improvements in decision Making processes.
- Executed appropriate statistical tests (t-tests, ANOVA, chi-square tests, and non-parametric tests) to analyze data and uncovered meaningful patterns, trends, and relationships with a 95% confidence interval.
- Collaborated with biomedical researchers and clinical trial teams, applying advanced statistical methods to analyze complex datasets, leading to a 15% increase in the accuracy of study findings.
- Produced 20+ comprehensive statistical reports and interactive data visualizations, effectively communicating intricate analytical findings to diverse stakeholders, including scientific researchers, clinicians, and regulatory bodies.
- Demonstrated expertise across diverse highly specialized therapeutic areas including oncology, cardiology, nephrology, urology and diabetology.

Education

M.Sc. in Statistics, Bharathiar University | Coimbatore, Tamil Nadu

Sep 2021 – May 2023

B.Sc. in Statistics, Arignar Anna Govt. Arts College| Villupuram, Tamil Nadu

Jun 2018 – May 2021

Courses: Descriptive Statistics | Sampling Theory | Probability Theory | Statistical Estimation Theory | Statistical Quality Control | Multivariate Statistical Analysis | Distribution Theory | Econometrics | Statistical Inference | Biostatistics | Programming in R | Design of Experiments | Stochastic Processes.

Skills

Programming: SAS, Python, R, SQL.

Tools: Microsoft Power BI, IBM SPSS, MINITAB, STATISTICA, Microsoft Excel.

Libraries: Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, Statsmodels.

Data Preprocessing & Others: Data Cleaning, Data Analytics, Data Analysis, Exploratory Data Analysis (EDA), Data Mining, Feature Selection Techniques, Data Visualization, Outlier Detection, Correlation Analysis, A/B Testing, Statistical Modelling.

ML Expertise: Regression, Classification, Clustering, Predictive Modelling, Quantitative Analysis, Statistical Modelling, Deep Learning, Time Series Analysis, Forecasting.

Soft-Skills: Research Skills, Adaptability, Time management, Decision making, Attention to detail, Collaboration, Problem-Solving, Teamwork, Critical thinking, Continuous learning, Analytical skills, Communication

Projects

RECENT BUSINESS PROGRESSION OF AMBANI AND ADANI GROUPS OF COMPANY

Jan 2023 - Mar 2023

- Analyzed company data from National Stock Exchange to identify trends and forecast future trajectories.
- Applied forecasting models like Trend Analysis, Holt-Winters, and Moving Average for stock price predictions.
- Utilized data visualization techniques for clear presentation of forecasted outcomes.
- Key Findings: Identified performance gap between groups, notable Adani Group growth due to strategic government project acquisitions.
- Leveraged Python programming for analyzing secondary data collected from the National Stock Exchange.

A STUDY ON STUDENT PERSPECTIVE AND ITS EFFECTIVENESS USING E-LEARNING

Aug 2022 – Oct 2022

- Investigated students' perspectives on effectiveness of e-learning platforms at Bharathiar University, Coimbatore.
- Utilized R Programming for analysis of primary data collected.
- Significance: Insights for optimizing e-learning environments based on student feedback.

Certifications

- Analytics on SAS, Great Learning(May 2024)
- Data Visualization with Power BI Simplified, Udemy (Apr 2024)
- Data Science: R Programming Complete Diploma 2023, Udemy (Dec2023)
- Webinar on Advances in Time Series Model Department of Statistics (Mar 2023)
- Webinar on Role of Statistics in Decision Science , Department of Statistics(Mar 2023)