HARSHAL BALKRUSHNA MARATHE

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OBJECTIVE

Detail-oriented and highly motivated Statistics graduate with a strong foundation in data analysis, programming, and statistical modeling. Eager to leverage academic training and practical experience to contribute effectively to projects requiring advanced statistical analysis and insights. Passionate about utilizing data driven approaches to solve complex problems and drive organizational growth.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, R, Base SAS, Matlab, Minitab, SPSS.
Statistical Skills: Hypothesis Testing, Regression Analysis, Probability Distributions, Inferential Statistics, Statistical Modeling, Exploratory Data Analysis (EDA), Machine Learning (Regression & Classification techniques)
EDA tools: SQL(Basics) , Tableau and PowerBI , Excel
Libraries: Python: (pandas, NumPy, Matplotlib, NLTK & spaCy , scipy, seaborn, scikit-learn) R: (ggplot, Plotly, tidyr, dplyr)
Soft Skills: Leadership, Communication, Persuasion .

EDUCATION

M.Sc. Statistics - Pursuing | KBC North Maharashtra University,Jalgaon   Jul. 2023 – · · · ·
- Sampling techniques, Regression Analysis, Data mining, Multivariate Analysis,Clinical trials, Design of Experiment, Probability Theory, Statistical Inference, Time Series, Stochastic Processes

B.Sc. Statistics - CGPA 9.54 | Moolji Jaitha College,Jalgaon   Jul 2020 – May 2023
- Statistical Process Control, Official Statistics, Distribution theory, Clinical trials, Sampling

H.S.C - Percentage: 73.38% | Moolji Jaitha College,Jalgaon   Jul 2018 – Apr 2020

PROJECTS

News Sentiment and Stock Movement Prediction – A Statistical NLP Framework Link   Sep 2024 – Dec 2024
- Developed an NLP-based framework to predict stock price movements by analyzing news sentiment. Utilized NewsAPI and Finnhub for data collection, applied advanced text preprocessing and sentiment analysis techniques, and implemented LSTM models to forecast stock trends. Integrated sentiment scores with historical stock price data to enhance prediction accuracy.| *Python- Tenserflow, NLTK, sklearn.*

Statistical Models and Their Applications in Natural Language Processing Link   Jul 2024 – Sep 2024
- Developed and implemented statistical models for NLP tasks, including text preprocessing, feature engineering, and sentiment analysis. Built an end-to-end NLP pipeline using Python (NLTK, spaCy, sklearn) and applied Naive Bayes for text categorization. Gained hands-on experience in data cleaning, vectorization, and model evaluation to enhance text classification accuracy.

Online Payment Method Survey | *R, Minitab, SPSS, EXCEL*   Nov 2022 – Apr 2023
- Conducted a survey among students and teachers of M.J College using questionnaires to assess preferences for online payment methods.
- Analyzed survey data using statistical software such as Minitab, Excel and R to determine the most effective and secure online payment method.Presented findings and recommendations based on analysis.

EXPERIENCE

Intern   May 2024 – Jun 2024
Chief Executive Office, Zilla Parishad, Jalgaon
- Worked under the supervision of **Mr. Ankit, IAS**, Chief Executive Officer, and analyzed the Result Framework Document of the Zilla Parishad, Jalgaon.
- Conducted data analysis using Excel and created visualizations using *Python's Matplotlib, R's ggplot, and Plotly.*

CERTIFICATION

Data Analytics in Python   **Score: 83%**
NPTEL Online Certification   *Jan-Apr 2024*

REFERENCES

1. Dr. (Mrs.) Kirtee K. Kamalja, Associate Professor, KBC NMU, Jalgaon. ✉ kkkamalja@nmu.ac.in

2. Mr. Manoj C. Patil, Assistant Professor, KBC NMU, Jalgaon. ✉ mcpatil@nmu.ac.in