Monika Sanjay Badgujar

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SUMMARY

Entry-Level data Scientist, Data Analyst with a Master's in Statistics and strong proficiency in Data Analysis, Statistical Techniques, and programming using SQL, SAS, R and Python. Skilled in managing large datasets, conducting real-world data analysis and building Predictive Models to support data-driven decision-making. Eager to leverage analytical skills in a professional environment to achieve impactful outcomes.

EDUCATION

M.Sc. Statistics, CGPA : 7.57/10   2023 – 2025
Kavayitri Bahinabai Chaudhari, North Maharashtra University, Jalgaon.

B.Sc. Statistics, CGPA: 9.15/10   2020 – 23
KCE's Moolji Jaitha College, Jalgaon.

INTERNSHIP

Integrated Tribal Development Project, Tehsil: Yawal, District: Jalgaon.   May – June 2024
- Cleaned and analyzed tribal schemes data using Excel and SQL, and created graphical visual summaries in Power BI to the Khawti Subsidy Scheme data under the guidance of the Project Officer at ITDP Yawal.

PROJECTS

Study of Worldwide Human Development Indices   Jan–May 2025
- Performed in-depth statistical analysis of global and Indian Human Development Index (HDI) datasets using R and Excel. Applied data wrangling, visualization, and modeling techniques to develop enhanced HDI metrics incorporating crime, inequality (Gini), and gender disparities.

Study of Copula and Its Applications   July – Dec 2024
- Explored the mathematical framework of copulas, emphasizing their role in modeling dependencies between variables using Sklar's Theorem. Applied copulas in hydrology for rainfall data analysis and in multivariate process control to enhance monitoring techniques and improve decision-making.
- **Statistical Tools Used:** EDA, Multivariate Process Control Techniques, Goodness-of-Fit Tests, Simulation Methods, Dependence Measures.

Study of Environmental Pollution in Jalgaon City   2023
- Performed a comprehensive analysis of air, noise, water, solid waste, and biomedical pollution using various statistical methods to assess their environmental and health impacts. Utilized data from a 2008 report to evaluate current pollution levels, aiming to inform policy decisions and enhance public awareness of environmental issues in Jalgaon City.
- **Statistical Tools Used:** EDA, ANOVA, Process Capabilities in Statistical Quality Control.

CERTIFICATIONS

Data Analytics with Python (83%), *NPTEL Online Certification Course*   May 2024
Data Mining, *Great Learning*   May 2024

Technical Skills

Programming: Python, R, SQL, C, MATLAB, SAS, SPSS
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, NLTK, spaCy
ML Techniques: Regression, Classification, Clustering, Time Series, Hypothesis Testing, PCA
Visualization: Tableau, Power BI, Excel, ggplot, Plotly
Soft Skills: Adaptability, Team collaboration, communication, decision-making

REFERENCES

Dr. (Mrs.) Kirtee K. Kamalja, Associate Professor, KBC NMU, Jalgaon. Contact: kkkamalja@nmu.ac.in
Mr. Manoj C. Patil, Assistant Professor, KBC NMU, Jalgaon. Contact: mcpatil@nmu.ac.in