

Monika Sanjay Badgujar

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SUMMARY

Motivated Statistics student with strong proficiency in Data Analysis, Statistical Techniques, and programming using R and Python. Skilled in managing large datasets 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, (Pursuing) 2023 – 2025
Kavayitri Bahinabai Chaudhari, North Maharashtra University, Jalgaon.

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

RELATED COURSEWORK

Sampling Theory & Statistics for National Development, Advanced R Programming & Numerical Methods, Probability Theory, Parametric Inference, Python, Linear Models & Regression Analysis, Design, Planning & Analysis of Experiments, Multivariate Analysis, Analysis of Clinical Trials using SAS, Data Mining, Statistical Quality Control, Optimization Techniques, Official & Applied Statistics, Distribution Theory

INTERNSHIP

Integrated Tribal Development Project, Tehsil: Yawal, District: Jalgaon. May – June 2024

- Analyzed data from tribal schemes and created graphical visualizations for the Khawti Subsidy Scheme data under the guidance of the Project Officer at ITDP Yawal.

PROJECTS

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.

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.

CERTIFICATIONS

Data Analytics with Python (83%), NPTEL Online Certification Course May 2024

Data Mining, Great Learning Online Certification Course July 2024

SKILLS

Languages & Softwares: Rstudio (dplyr, tidyr, ggplot2, plotly, data.table, lattice, stats, purrr, broom), C, Python (NumPy, Pandas, Scipy, Sympy, sklearn, Matplotlib), SQL, Minitab, MATLAB, SAS, SPSS, Power BI, Microsoft Excel

Statistical Techniques: Exploratory Data Analysis (EDA), Linear Models & Regression Analysis, Statistical Quality & Process Control (SQC & SPC), Statistical computing with Python, Clinical Trials using SAS, Data Mining, Machine Learning, Time Series Analysis

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