Devyani Sunil Bhosle

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SUMMARY

Motivated Statistics student with expertise in data analysis, predictive modeling, and programming (R & Python). Skilled in managing large datasets and driving data-informed decisions.

EDUCATION

M.Sc. Statistics, (Pursuing) 2023 – ...
Kavayitri Bahinabai Chaudhari, North Maharashtra University, Jalgaon.

B.Sc. Statistics, **CGPA: 9.89/10** 2020 – 23
KCE's Moolji Jaitha College, Jalgaon.
J.D.M.V.P.Co.Op Samaja's Shri S.S.Patil Arts, ShriBhausaheb T.T.Salunkhe Comm. And Shri G.R.Pandit Science 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

District Planning Office, Jalgaon. May – June 2024

- Developed detailed project reports for a Banana Food Processing Cluster and a Polypropylene Mats Cluster in Jalgaon under the guidance of the District Planning Officer.

PROJECTS

An Analytical Study of COVID - 19 Pandemic India 2021 – 22

- Conducted a state-wise comparative analysis of the impact of the COVID-19 pandemic in India, focusing on the Death Rate & Recovery Rate.
- Statistical Tools Used: EDA, Demographic measures - Death Rate, Recovery Rate

Gender Inequality in Political Sector in India 2022 – 23

- Analyzed gender-based political inequality in India by studying the link between women contestants and elected representatives in Lok Sabha elections, focusing on factors affecting women's political participation & leadership.
- Statistical Tools Used: EDA, Time Series Analysis, Chi - Square test of Independence of Attributes

Quantile Regression: A Robust Alternative to OLS June – December 2024

- Explored quantile regression as a robust alternative to OLS, focusing on conditional distributions, heteroscedasticity, and outlier handling to gain deeper insights beyond mean-based models.
- Applied the methodology on simulated datasets and real-world datasets (e.g., Engel food expenditure, air quality) using R (`quantreg` package) and SAS.

CERTIFICATIONS

Project Management, *KBC NMU Career Oriented Certificate Course (COCC)* Oct 2022
Data Analytics with Python (83%), *NPTEL Online Certification Course* May 2024
Analytics on SAS, *Great Learning Online Certification Course* July 2024
Data Mining, *Great Learning Online Certification Course* July 2024

SKILLS

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