YOGESH YUVRAJ PATIL

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EDUCATION

Master of Science in Statistics — Pursuing
Kaviyatri Bahinabai Chaudhari North Maharashtra University, Jalgaon — Aug 2023 - ....

Bachelor of Science in Statistics — **CGPA: 8.1**
Moolji Jaitha College, Jalgaon — Aug 2020 - June 2023

TECHNICAL SKILLS

- **Statistical Skills:** Probability Distributions, Hypothesis Testing, Statistical Inference, Regression Analysis, Exploratory Data Analysis (EDA), Time Series Analysis, Statistical Modeling, Stochastic Processes, Clinical Trials
- **Programming Languages & Softwares:** Python, R, SQL, C, Matlab, Minitab, Excel, BASE SAS, SPSS, Power BI
- **Packages & Libraries:** Python (numpy, pandas, scipy, scikit-learn, matplotlib, seaborn, statsmodels), R (tidyr, dplyr, ggplot2, plotly, data.table)
- **Data Processing and Cleaning:** Data Wrangling, Data Transformation, Feature Engineering
- **Machine Learning:** Supervised Learning (Linear/Logistic Regression, Decision Trees, Random Forests, Gradient Boosting, Support Vector Machines), Unsupervised Learning (Clustering, PCA, Dimensionality Reduction), Model Evaluation (Cross-Validation, ROC-AUC, Precision-Recall Analysis)

EXPERIENCE

Internship: Krishi Vigyan Kendra, Jalgaon | — May 2024 - Jun 2024

- Analyzed agricultural datasets of cotton crops for **Insecticide Resistance Management (IRM)** practices. Applied **Hypothesis Testing** and **Exploratory Data Analysis** in Python to derive actionable insights. Integrated statistical methods to enhance understanding and optimize IRM practices.

PROJECTS

Study of Environmental Pollution in Jalgaon City | — Jan 2023 - May 2023

- Conducted an in-depth analysis of pollution data using JMC datasets. Utilized **Water Quality Index (WQI)**, **Air Quality Index (AQI)**, **correlation analysis**, **Exploratory Data Analysis (EDA)**, and **ANOVA** to provide actionable recommendations for pollution reduction strategies.

Survival Analysis on Spousal Mortality | — Aug 2024 – Dec 2024

- Collected primary data on spousal mortality from nearby individuals.
- Implemented survival analysis techniques such as Kaplan-Meier estimator and Cox proportional hazards model.
- Analyzed the impact of one partner's death on the survival time of the other.
- **Conclusion:** We concluded that the death of one partner significantly affects the survival time of the remaining partner, with a more pronounced impact on husbands compared to wives.
- Tools and Libraries: Python (`lifelines`, `matplotlib`, `seaborn`,`pandas`), R (`survival`, `survminer`), Excel for initial data entry.

CERTIFICATIONS

- Data Analytics with Python - **NPTEL** — 2024
- Machine Learning, NLP Bootcamp, MLOps & Deployment - Udemy — 2024

ADDITIONAL INFORMATION

- Languages: English (Fluent), Hindi (Fluent), Marathi (Native)
- Technical Interests: Data Science, Machine Learning, Statistical Modeling, Data Visualization, Business Analytics
- Leadership: Team Lead for various academic and extra-curricular activities