

DEGA BALAJI VARA PRASAD

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EDUCATION

Integrated Masters in Statistics - Pondicherry University, 2019-24

Higher Secondary Education (XII) - Sri Chaitanya Jr. College, 2017-19

SKILLS

- **Programming Languages:** Python (NumPy, Pandas, Matplotlib, Seaborn, Plotly, scikit-learn, TensorFlow, PyTorch, Streamlit), R (R Shiny)
- **Data Analysis & Visualization:** SQL, Tableau, SPSS
- **Machine Learning & Statistics:** GLM, Neural Networks, Hypothesis Testing, Causal Inference
- **Version Control & Tools:** Git
- **Additional Skills:** Problem Solving, Data Cleaning

EXPERIENCE

Graduate Intern at GSK – Bangalore (From Jan 2024 to Jul 2024)

- I gained a comprehensive understanding of Survival Analysis, particularly in the context of pharmaceutical research. I learned how to model and interpret time-to-event data, which is crucial for analysing patient outcomes.
- I delved into the complexities of Causal Inference, focusing on how to establish causal relationships between treatment and outcomes in the presence of competing risks. This has been essential in improving the reliability of conclusions drawn from clinical data.
- I researched and applied methods to address the challenges posed by competing risks in Survival Analysis. This involved learning advanced statistical techniques to ensure accurate interpretation of survival outcomes, even when multiple potential outcomes are possible.

Statistical Assistant – Dr R Vishnu Vardhan (From 2022 to Dec 2023)

- I worked on several projects that deepened my knowledge of biostatistics, applying statistical methods to real-world biological data. This experience strengthened my ability to analyse and interpret complex datasets effectively.
- I contributed to projects involving comparative analysis, honing my skills in comparing statistical methods and outcomes across different studies. This work enhanced my ability to draw meaningful conclusions from diverse data sources.

PROJECTS

Crimes Against Women in India – Cluster Analysis

- I applied K-Means clustering to categorize states based on the number of crimes against women, identifying patterns and groupings across different regions. This technique allowed for a clearer understanding of crime distribution and hotspots.
- The clustering results offered valuable insights that could inform policy decisions, enabling targeted interventions in states with higher crime rates. This project highlighted the potential of data-driven approaches in addressing societal issues.

Mushroom Classification

- I developed a classification model using the XGBoost algorithm, which is known for its efficiency and high performance. To optimize the model, I implemented a function to search for the best hyperparameters, leading to an exceptional classification accuracy of 98.530%. This high accuracy underscores the model's robustness in distinguishing between classes.
- The performance of the classification model was evaluated using the Matthews Correlation Coefficient (MCC), a metric that takes into account true and false positives and negatives, providing a balanced measure of accuracy.

Cashless Economy in the Making: A Deep Dive into UPI's Evolution and Influence in India

- Extracted An empirical study of the demographic characteristics to study the awareness, growth, and impact of online services on students of India. (Data is collected from all the Central Universities)

ACHIEVEMENTS

- Selected for final round in the competition "Data Quest" conducted by Novo Nordisk
- Stood 1st in FACTISTICS in the Inference 2022, an online statistical fest conducted by the Christ University, Bangalore
- Selected for "Mathematics Training and Talent Search (MTTS) program"

CERTIFICATIONS

- Tableau
- Python
- Machine Learning Specialization
- R Language

EXTRACURRICULAR ACTIVITIES

- Hobbies include listening to music, playing Badminton, Reading Poetry, Novels and Non-Fiction.
- Took part in the Rotman Datathon'22, conducted by the Rotman School of Management, University of Toronto
- Experience with Manjaro Linux for a year, with basic knowledge and most interest in the prompt-based system handling o
- Developed interest and self-taught how to use a prompt-based text editor called NeoVim.