BARNALI DAS

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SUMMARY

A highly motivated Data scientist with a strong foundation in mathematical and statistical modelling. Proficient in leveraging advanced analytical techniques to extract insights from complex datasets and drive data-driven decision-making. Strong programming skills in Python, R, Pyspark and SQL, with a focus on developing and deploying machine learning models. Experienced in exploratory data analysis, time series analysis and predictive modelling. Adept at communicating technical findings to both technical and non-technical stakeholders. Seeking a position as a Data scientist or related where these skills and knowledge will add greater value.

KNOWLEDGE PURVIEW

- Statistical Modelling – Hypothesis testing, Regression analysis, Probability theory ,Time series forecasting, Bayesian inference, Monte carlo simulation.
- Machine Learning – Neural networks, Decision tree, Random forest, Support vector machine, Ensemble methods, Classification and Clustering methods.
- Data Wrangling, Feature Engineering, Exploratory data Analysis, Data visualization and Data mining
- Big Data Technologies – Apache Spark, Azure Databricks.

IT SKILLS

Languages Known**:** Pyspark**,** Python, R, C, Excel | Databases**:** SQL | Tools**:** Power BI, Tableau, MATLAB, SPSS, Minitab

PROFESSIONAL PROGRESSION

NielsenIQ — ***Pune***

Associate Data Scientist — *from 07/23 – to Present*

- Deployed multi-stage modeling for a linear mixed model to improve the seasonality component using item-period randomization for a product within the NIQ portfolio, focusing on pricing and promotional strategies.
- Forecasted sales utilizing univariate forecasting models tailored to meet client specifications.
- Conducted model validation for NIQ products through evaluation metrics, ensuring the accuracy and reliability of results.
- Documented modules for NIQ products to enhance comprehension, visibility, and productivity.

Data Science – Intern — *from 01/23 – 06/23*

- Analyzed NIQ's client-based product backend to assess the influence of advertising, digital campaigns, and store events on retail sales.
- Revamped product using Pyspark, scaled on Azure cloud for enhanced cost efficiency and sustainability.

Achievements:

- Achieved first place in the Retail Analytics Hackathon 20243Q4 organized by the Data Science COE.
- Core Team member of the Editorial team for the Data Science COE Newsletter.

Reserve Bank of India — ***Mumbai***

Summer Intern, Department of External Investment & Operations — *from 06/22 – to 08/22*

- Contributed to the research project "Internationalization of Currencies in Asia: Case of India" by employing statistical methods such as time series analysis and regression.
- Utilized Tableau and PowerBI for data visualization to extract valuable insights and narratives.

ACADEMIC QUALIFICATION

Symbiosis International University — **Pune**

*MSc in Applied Statistics (GPA: **9.08**)* — *from 08/2021 to 08/2023*

Achievements:

- Awarded Certificate of Merit by the Director of Symbiosis Statistical Institute for achieving first rank in MSc (Applied Statistics), Batch 2021-23.
- Received Letter of Appreciation from the Director of Symbiosis Statistical Institute for contributions as the Placement Coordinator in the Student Council (2021-23).

Mount Carmel College (Autonomous) — **Bangalore**

*BSc in Computer Science, Mathematics and Statistics (GPA: **9.42**)* — *from 06/2018 – to 07/2021*

Achievements:

- Awarded as an Academically Bright Science student and Highest scorer in Computer Science, Mathematics, and Statistics for three consecutive years at Mount Carmel College.
- Acknowledged for exceptional contributions to the Mathematics Department at Mount Carmel College.

PROJECTS AND PUBLICATIONS

Publication: Use of Design of Experiments in the Pharmaceutical Sector (IMME 2022) published in the Nano World Journal

Projects:

- Understanding Diabetes Patients for 130 US Hospitals using K- means clustering and Principal Component Analysis
- Multiple Linear Regression Project to understand consumer behavior for an E-commerce store
- Predicting the Loan Status for a Personal Loan Company using Logistic Regression
- Is it time to fly the nest? A study on Student migration using Decision trees, Random Forest and Support Vector Machine