

PRANAM P ACHARYA

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PROFESSIONAL SUMMARY

Data Science graduate student with hands-on experience in predictive modelling, statistical analysis, and data visualisation. Proficient in Python, R, SQL, and Power BI, with practical experience in statistical consulting, supporting medical students with study design, sample size calculation, and multivariable analysis. Adept at translating complex datasets into actionable insights for both research and business contexts.

EDUCATION

Manipal Academy of Higher Education (MAHE)

M.Sc. in Data Science

Nitte University

B.Sc. in Data Analytics

Manipal, Karnataka

2025 – 2027 (*Expected*)

Mangalore, Karnataka

2022 – 2025

TECHNICAL SKILLS

Programming & Analysis: Python (Pandas, NumPy, Scikit-learn), R, SQL

Visualisation & BI: Power BI (DAX, Pivot Tables, Interactive Dashboards), Excel

Data Engineering: ETL Pipelines, Data Cleaning, Data Normalisation

Soft Skills: Analytical Thinking, Scientific Communication, Team Collaboration

EXPERIENCE

Data Analytics Intern

RDL Technologies Pvt. Ltd.

June 2024 (1 month)

Mangalore, India

- Engineered an interactive Power BI dashboard integrating data from Production, Quality Control, and Inventory systems, providing a unified view of manufacturing inefficiencies.
- Performed EDA on large industrial datasets to identify key drivers of scrap generation and operational bottlenecks across 4+ machine types (Punching, Shearing, and others).
- Developed a 3-month forecasting model to predict scrap generation trends, supporting proactive material planning and anomaly detection.
- Supported a company-wide initiative targeting a 10% reduction in material waste through historical data analysis.
- Executed end-to-end ETL processes including data cleaning, normalisation, and validation to standardise operational reports for leadership.

PROJECTS

Household Energy Optimisation | *Python, Power BI*

- Analysed appliance-level household electricity consumption data to identify top cost drivers using Python (Pandas, NumPy) and Power BI.
- Identified that AC and Refrigerator accounted for ~85% of total energy bills; modelled the impact of behavioural changes (e.g., reducing AC use by 2 hours/day) on monthly costs.
- Developed an interactive Power BI dashboard visualising consumption trends by appliance, time-of-day, and cost impact.
- Built a monthly cost forecast model and generated actionable recommendations (timer-based geyser use, appliance scheduling) projected to reduce household energy costs by ~25%.

Scrap Analysis Dashboard | *Power BI*

- Conducted in-depth scrap and cost analysis to identify major contributors to material wastage in a manufacturing context.
- Built a Power BI dashboard visualising scrap trends, cost impact, and material-wise losses.
- Collaborated with engineers to translate shop-floor data into actionable operational insights.

LEADERSHIP & ACTIVITIES

Joint Secretary, IT Club

- Led and coordinated student-led technical initiatives including coding contests and analytics workshops.

Volunteer Lead, NSS Camp

- Managed teams during community outreach programs and tracked participation data.

Participant, National Integration Camp

- Represented the institution in a national-level leadership and cultural exchange program.