

Indumathi Balasubramaniyam

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SUMMARY

Data Science professional with an MSc in Statistics and hands-on experience in Python, R, SQL, Power BI, and Machine Learning. Skilled in statistical modeling, predictive modeling, data analysis, and data visualization, with experience building interactive tools and dashboards. Seeking a Junior Data Scientist role to apply data-driven insights to solve real-world business problems.

SKILLS

Programming & Tools: Python, R, SQL, Power BI, Excel, Streamlit, Tkinter, NumPy, Pandas, Matplotlib, Scikit-learn.

Data Science & Analytics: Data Analysis, EDA, Predictive Modeling, Statistics.

Machine Learning: Regression, Logistic Regression, SVM, KNN, KMeans, Random Forest.

PROJECTS

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|--------------------------------------------------------------------------------------------|--------|
| 1. Employee Attrition Prediction & Retention Insights | GitHub |
| – Built ML pipeline using 1,470 employee records with Python and Scikit-learn. | |
| – Handled class imbalance, improving recall by 18% . | |
| – Random Forest model achieved 85% accuracy and identified top 5 attrition drivers. | |
| – Developed a Streamlit app for predicting attrition risk for individual employees. | |
| 2. Netflix Content & Subscriber Analytics Dashboard | GitHub |
| – Analyzed Netflix titles across countries . | |
| – Developed 10+ interactive visualizations using Power BI. | |
| – Identified top 3 genres and regional content preferences. | |
| – Tracked monthly viewer trends over 24 months to derive insights. | |
| 3. Customer Segmentation & Insights | GitHub |
| – Segmented 1,000+ customers into 4 clusters using K-Means and PCA. | |
| – Identified high-value customers contributing 35% of total revenue . | |
| – Visualized clusters using scatter plots and bar charts. | |
| – Generated actionable insights on low-spending segments. | |

EXPERIENCE

Assistant Professor AVS College of Arts & Science
Salem
Sep 2023 – May 2025

- Taught Statistics, Probability, Regression, and Data Analysis concepts.
- Applied Statistical methods (EDA, Hypothesis testing, Regression) on academic datasets.
- Guided student projects involving data collection, pre-processing, and generation.

Bio Statistician Mahatma Eye Hospital Pvt Ltd
Trichy
Aug 2022 – Sep 2022

- Applied statistical models to analyze biological and medical datasets.
- Performed data cleaning, pre-processing, and validation to ensure dataset accuracy.
- Generated insights to support evidence-based decision-making in clinical research.

EDUCATION

M.Sc., Statistics with Computer Applications Bharathiar University • Coimbatore • 2019 – 2021 • 7.4

B.Sc., Statistics Bharathiya Arts & Science College(w) • Deviyakurichi • 2016 – 2019 • 8.99

CERTIFICATION

Nano Degree On Data Science — Imagecon Academy, Salem • 2026