

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

- 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** Bharathiyar Arts & Science College(w) • Deviyakurichi • 2016 – 2019 • 8.99

CERTIFICATION

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