

# RAMKUMAR S

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LinkedIn

## TECHNICAL SKILLS

**Programming Languages:** Python (OOPs, Functional Programming, File Handling, Exception Handling)

**Data Analysis:** Python libraries (NumPy, Pandas, Seaborn)

**Data Visualization:**

- **Power BI:** Data Import, Cleaning, Transformation (Power Query), Data Modelling, Star Schema, Visualization, DAX, Interactive Dashboards.
- **Microsoft Excel:** Data Cleaning, Power Query, Macros (Basics), VLOOKUP/HLOOKUP, Pivot Tables, Charts.

**Databases:** SQL (CRUD Operations, Joins, Subqueries, Views, Functions, Normalization, MySQL, SSMS, ETL Basics)

**Web Technologies:** HTML5 (semantic tags), CSS3 (flexbox, grid, responsive design), JavaScript (ES6+, DOM, event handling)

## EDUCATION

**Er.Perumal Manimekalai College OF Engineering**

2021 – 2025

*Bachelor of Technology (IT) – CGPA: 7.4*

Hosur, T.N

**Shanthi Nikethan Hr. Sec. School**

2020 – 2021

*High School (PCMC) – Percentage: 85%*

Dharmapuri, T.N

**Shanthi Nikethan Hr. Sec. School**

2018 – 2019

*10th – Percentage: 79%*

Dharmapuri, T.N

## PROJECTS

### HR Attrition Analysis

- Cleaned and transformed data using Power Query and created calculated measures with DAX.
- Used Excel for data cleaning and Power BI for DAX, data modelling, and visualization.
- Analyzed employee turnover to identify key factors impacting retention.
- Built an interactive Power BI dashboard showing tenure, salary distribution, satisfaction, job roles, and work-life balance.
- Outcome: Provided actionable insights to help HR improve retention strategies.

### Drowsy-Alert And Fatigue Detection

- Technologies: Python, OpenCV, Dlib, Raspberry Pi, Machine Learning .
- Developed an AI-based real-time driver drowsiness detection system using **computer vision** and **deep learning** to enhance road safety.
- Implemented **facial landmark detection** and **Eye Aspect Ratio (EAR)** algorithms to monitor eye blinks, yawning, and head posture for fatigue detection.
- Designed a **non-intrusive, low-cost** solution compatible with standard cameras and embedded devices (Raspberry Pi).

## INTERNSHIP

**Test Yantra Software Solutions India Pvt Ltd.** ↗

July 2025

*Role: Data Analyst Intern*

Bengaluru, K.A

- Collected, cleaned, and analyzed large datasets using **Python (Pandas, NumPy)** and **Excel** to identify key trends and patterns.
- Created **interactive dashboards** and **visual reports** using **Power BI / Tableau**, improving decision-making efficiency.
- Applied **statistical techniques** and **data visualization** to generate actionable insights for business improvement.
- Documented findings and presented data-driven recommendations to stakeholders for process optimization.

## CERTIFICATIONS

• *SQL&Database Expert Certification – HackerRank.*

• *Python Basics Certification – HackerRank.*