

# Karthik Baliga

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## EDUCATION

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### Canara Engineering College

*B.E. Artificial Intelligence and Machine Learning (CGPA: 8.33)*

Mangaluru, India

*Aug 2022 – Present*

### Excel PU College

*Class 12 (PCMC – 92%)*

Guruvayanakere, Karnataka

*2020 – 2022*

### Sacred Heart English Medium School

*Class 10 (87.2%)*

Madanthyar, Karnataka

*2020*

## EXPERIENCE

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### Data Analytics Intern

*Infosys Springboard*

Dec 2025 – Feb 2026

*Remote*

- Analyzed **global military datasets of 140+ countries** to identify trends in defense spending and manpower distribution.
- Cleaned and transformed raw datasets, improving data consistency and usability for analysis.
- Built **Power BI dashboards with 10+ DAX measures** to track KPIs such as military strength index, asset allocation, and budget comparison.
- Designed interactive visualizations enabling **country-level comparison and trend analysis**.
- Derived insights on global military power distribution to support data-driven interpretation.

## TECHNICAL SKILLS

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**Programming:** Python, SQL

**Python Libraries:** pandas, NumPy, Matplotlib, Seaborn

**Data Visualization:** Power BI, Tableau

**Databases:** MySQL

**Tools:** Excel, Jupyter Notebook, Google Colab, Git

## PROJECTS

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### Dashboard for Swachhta Using AI-Based Image Analysis

*Python, OpenCV, MongoDB*

July 2025 – Nov 2025

- Built an AI-powered system that analyzes uploaded images to automatically detect and classify waste in public spaces into multiple categories to assess cleanliness levels.
- Designed a cleanliness scoring system evaluating waste type and spatial spread, producing a 0–100 scale score.
- Created a multi-user dashboard where users can upload images, view detected waste with bounding boxes, track scores over time, and download PDF reports.
- Implemented secure user authentication with role-based access so users can only view their own analysis history.

### Unified Military Analytics and Comparison Dashboard

*Power BI, DAX*

Dec 2025 – Feb 2026

- Developed an interactive dashboard analyzing **140+ countries** to compare military strength and resource allocation.
- Created **10+ DAX measures** for KPIs including defense budget, manpower distribution, and asset strength.
- Designed modules such as **Quick Stats, Nation Overview, and Country Comparison** for structured analysis.
- Enabled users to identify **top-performing nations and strategic patterns** through dynamic visualizations.

## COURSES AND CERTIFICATIONS

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**Programming in Python – Beginner (Infosys Springboard):** Hands-on learning of variables, loops, functions, and introductory OOP.

**Introduction to MySQL (Infosys Springboard):** Relational database concepts and SQL queries for data retrieval and manipulation.

**Google AI Essentials Certificate – Google:** Understanding of AI concepts, applications, and ethical considerations in AI projects.

**NPTEL – Python for Data Science, IIT Madras (Elite + Silver):** Python for data science including NumPy, pandas, Matplotlib, and data preprocessing.

**NPTEL – Fundamentals of Artificial Intelligence, IIT Guwahati (Elite + Silver):** Covered AI basics, knowledge representation, and machine learning fundamentals.

## ACTIVITIES

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**Certificate of Appreciation – The Great Bengaluru Hackathon:** March 2025

**Participant – Edu-Vitality Hackathon, R.V. College of Engineering (IEEE ComSoc):** June 2024