

# BARATH P

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## PROFILE

Motivated and analytical Data Science postgraduate with a strong foundation in programming, data analysis, and business systems. Skilled in using technology to automate processes and improve operational efficiency. Committed to continuous learning, collaboration, and building intelligent solutions that support enterprise transformation.

## TECHNICAL & INTERPERSONAL SKILLS

- **Programming:** Python (Pandas, NumPy, Scikit-learn), SQL
- **Data Visualization:** Power BI, Matplotlib
- **Tools:** Jupyter Notebook, Google Colab
- **Concepts:** Data Analytics, Machine Learning, Deep Learning (ANN, CNN, RNN)
- Strong analytical thinking, problem-solving skills, and effective team collaboration

## EDUCATION

**M. Sc, Data Science** **2023 - 2025**

Kalasalingam Academy of Research and Education

- CGPA: 6.75

**B. Sc, Computer Science** **2020 - 2023**

The American College

- CGPA: 7.53

## PROJECTS

- **Dog Breed Identification using YOLOv8** - Developed a deep learning model to detect and classify dog breeds from images using the YOLOv8 framework. Focused on optimizing model accuracy and inference speed through data preprocessing and architecture tuning.
- **Restaurant Management System** - Built a scalable restaurant data management platform using big data tools and analytics techniques. Worked as a Business Analyst to streamline operational workflows and automate reporting processes.
- **Recommendation System using Cosine Similarity** - Designed and implemented a movie recommendation engine in Python using cosine similarity to predict user preferences. Enhanced model precision through effective feature extraction and data filtering.
- **NLP-Based Word Prediction Game** - Created an interactive NLP-based word prediction game utilizing semantic similarity and text vectorization. Improved user engagement by integrating predictive text logic and adaptive scoring mechanisms.
- **IV Bag Management System** - Developed an IoT-based monitoring system to track IV fluid levels using sensors and microcontrollers. Integrated data transmission and alert mechanisms for real-time monitoring and safety enhancement.

## AWARDS AND CERTIFICATIONS

- First Prize in Problem solving using Data Analytic Tool conducted during Coders Club Events.
- Generative AI using Python (Workshop)

## LANGUAGES

- Tamil: Native proficiency
- English: Proficient in reading, writing, speaking and comprehension