Shenbaga Ganeshan S

Artificial Intelligence and Data Science Student

Phone: 7708038712   Email: shenbagaganeshan@gmail.com

Location: Kovilpatti, Tamil Nadu

LinkedIn: https://www.linkedin.com/in/shenbaga-ganeshan-250a41256/

GitHub: https://github.com/ShenbagaganeshanS

Career Objective

Aspiring AI and Data Science student passionate about developing innovative solutions using machine learning, deep learning, and data analysis. Seeking opportunities to contribute to impactful projects and grow as a prompt engineer and data analyst.

Education

B.Tech in Artificial Intelligence and Data Science

Ramco Institute of Technology

Year of Passing: 2026 | CGPA: 7.5/10

Skills

Programming: Python, Java (Basics), SQL, Git, GitHub

ML/AI: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Prompt Engineering, Synthetic Data Generation

Deep Learning: TensorFlow (Basics), PyTorch (Basics)

Computer Vision: OpenCV, YOLOv8, BoT-SORT, OC-SORT

Development Tools: Streamlit, PyQt5, Flask, Jupyter, Google Colab

Soft Skills: Problem Solving, Team Collaboration, Communication, Adaptability

Projects

Cement Bag Forecasting using Synthetic Data

Developed a machine learning pipeline to forecast cement bag loading patterns using synthetic time-series data. Built regression models, performed EDA, and visualized trends for predictive analysis.

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Technologies: Python, Pandas, Scikit-learn, Matplotlib, Seaborn

Internships

Machine Learning Intern - Elysium Group of Companies (Jan 2024 - Mar 2024)

- Built ML models for cancer and COVID-19 prediction with optimized feature engineering and data preprocessing.

Computer Vision Intern - Ramco Cements Ltd., Alathiyur (Apr 2024 - May 2024)

- Developed YOLOv8-based model for detecting Aalathiyur labels on cement bags from RTSP video streams.

Computer Vision Intern - Ramco Cements Ltd., Ariyalur (May 2024 - Jun 2024)

- Built a PyQt5-based app for real-time bag counting across 16+ RTSP streams using YOLOv8 + BoT-SORT.
- Integrated Modbus TCP for real-time target monitoring and automatic logging.

Certifications

- Java Basics - Great Learning - 2024
- AI Internship - Ramco Cements Ltd. - 2024
- Machine Learning Internship - Elysium Group - 2024