

SHENBAGA GANESHAN S

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SUMMARY

Data Science and AI Developer intern with hands-on experience in Python, SQL, Machine Learning, Deep Learning, Computer Vision and Prompt Engineering. Skilled in building real-time data pipelines, predictive models, dashboards and systematized systems. Seeking opportunities as a Data Analyst / Machine Learning Engineer to apply technical expertise and deliver impactful AI-driven solutions.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, HTML
AI/ML: Machine Learning, Deep Learning, Prompt Engineering
Computer Vision: OpenCV, YOLOv8, PyQt5
Frameworks & Libraries: Flask, Pandas, NumPy, Scikit-learn
Databases: SQL Server
Tools: Power BI, Git

EXPERIENCE

AI Developer Intern July 2025 - July 2025, Ariyalur
Ramco Cements Ltd
Developed and deployed a PyQt5 + YOLOv8 solution for real-time cement bag counting across 16+ RTSP streams with Modbus TCP integration and live analytics dashboard.

Computer Vision Intern June 2024 - September 2024, Alathiyur
Ramco Cemnets Ltd
Created YOLOv8 pipelines for automatic label detection from RTSP video streams, automating real-time reporting in high-volume manufacturing.

Machine Learning Intern September 2023 - September 2023, Madurai
Elysium Group of Companies
Built ML models and computerized data pipelines for COVID-19 prediction, optimising feature engineering and preprocessing on large healthcare datasets.

PROJECT

Driver Alert System July 2025 - August 2025, Ariyalur
Implemented a Flask-based system to automate driver alerts via SMS and voice calls using SIM900A and SQL Server, eliminating smartphone dependency.

AI-Based Cement Bag Counting System January 2025 - August 2025, Ariyalur
Devised a CUDA-accelerated YOLOv8 segmentation pipeline with Modbus TCP integration for mechanized cement bag detection and counting on conveyor belts.

Cement Bag Forecasting using Synthetic Data July 2025 - July 2025
Engineered a machine-learning workflow to predict cement bag loading patterns with synthetic time-series data, enhancing resource planning.

EDUCATION

Bachelor of Technology (B. Tech.)
Minor in Artificial Intelligence and Data Science • Ramco Institute of Technology • Rajapalayam • 2026 •
CGPA-7.55

ACHIEVEMENTS

TCS NQT - 69.32%

LEADERSHIP

Organizing Secretary in ASI Club - Evaluated idea presentations in PPTs for the "AI Fusion Fest" app development hackathon as Judge and provided constructive feedback to participant

CERTIFICATION

Java (Basic) - HackerRank (2024)

- Certified in Java Fundamentals

Power BI - Microsoft (2024)

- Certified in Power BI

Game Development Using Pygame - Guvi (2022)

- using the Pygame framework