

RAVIKIRAN SUVARNA

SOFTWARE ENGINEER



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[Ravikiran.S](#)

OBJECTIVE

MCA student passionate about backend development and practical experience in API development, database design, and system integration. Proficient in Python, Java, and SQL, with exposure to Spring Boot, Docker, and CI/CD workflows. Eager to grow with Scleravdms Pvt. Ltd. by developing secure, scalable, and high-performance backend systems.

PROJECTS

FruitRipenessNet - Fruit Ripeness Classifier (PyTorch)

- A lightweight custom CNN that classifies fruit images into ripeness stages immature, ripe, and overripe.
- Built a custom CNN in PyTorch to classify fruit ripeness stages with 91.1% accuracy.
- Designed lightweight model for real-time, on-device deployment.
- Tech: PyTorch, Python, Data Augmentation, Streamlit.

From Pixels to Petals :

- A Real-Time Hybrid Ensemble System for Flower Classification.
- Designed REST APIs for real-time predictions across 105 flower classes in a weighted ensemble to classify flower categories.
- Tech: Python, Flask, TensorFlow, scikit-learn, OpenCV.

Dataset Generation Tool with Preview & History :

- Developed a dataset builder app to generate, preview, and categorize training images.
- Included live preview, process history, and automatically organized output folders.
- Tech Stack: React.js, Python, Flask.

AI Spam Email Detection :

- Created a Flask REST API integrating Google Gemini API for real-time spam classification.
- Processes incoming email text and determines the likelihood of spam in real time.
- Deployed as a Flask-based API for integration in communication platforms.
- Tech Stack: Gemini API, Flask, Python

Secure Auth System:

- Developed a full-stack authentication system using Node.js, Express, and MongoDB with secure password hashing and JWT-based sessions.
- Implements user registration, login, logout, and role-based access control for protected API endpoints.

EDUCATION

Master of Computer Application

NMAM Institute of Technology

CGPA : 8.30

2026

Bachelor of Computer Application

GOVERNMENT FIRST GRADE

COLLEGE TENKANIDIYUR

CGPA : 8.06

2024

SKILLS

• Languages:

Python, Java, C.

• Databases:

MySQL, PostgreSQL, Supabase, SQLite.

• AI/ML:

scikit-learn, OpenCV, TensorFlow, PyTorch.

• DevOps & Tools:

Git/GitHub, Docker, CI/CD (GitHub Actions, Jenkins), VS Code.

CERTIFICATIONS

• Data Science Bootcamp

• Flutter Workshop Certificate

• Research Methodology SDP Certificate

• AINNOVATION 2025 : Applied AI Learning Challenge

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