

NILAMAGAN J

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Portfolio: <https://nilamagan-j.github.io/Nilamagan/>

PROFESSIONAL SUMMARY

Entry-level Software Developer with hands-on experience building AI-powered web applications using **Python**, **React**, and **Flask**. Developed machine learning models and integrated front-end-backend systems through academic and personal projects. Currently strengthening expertise in Cloud Computing, Automation, and **RPA** technologies.

PROJECTS

Crime Vision – Deep Learning Crime Classification System

Python, TensorFlow, Flask, React

- Built CNN-based multi-class crime classification model (94% validation accuracy).
- Developed **Flask** API backend to serve the **TensorFlow** model.
- Integrated React frontend for prediction visualization.
- Designed end-to-end training, evaluation, and deployment workflow.

GitHub: <https://github.com/Nilamagan-J/Crime-Vision-Advanced-Crime-Classification-with-Deep-Learning>

Product Recommendation System – Machine Learning Engine

Python, Scikit-Learn, Flask, React

- Implemented hybrid collaborative and content-based filtering algorithms.
- Performed feature engineering and model optimization using **Scikit-Learn**.
- Built scalable frontend integration with real-time recommendations.
- Improved product discovery performance through model evaluation tuning.

GitHub: <https://github.com/Nilamagan-J/Product-based-Recommendation-System-Using-Machine-Learning>

TECHNICAL SKILLS

Programming: Python, JavaScript

Frontend: HTML, CSS, React

Backend: Flask, Node.js (Basics), Django (Basics)

Machine Learning: TensorFlow, Scikit-Learn, Data Preprocessing

Databases: SQL (Basic)

Tools: Git, GitHub, Docker (Basics)

Additional Knowledge: Cloud Computing, Automation Fundamentals

EDUCATION

B.Tech – Information Technology - APEC | 2024 | CGPA: 7.76

INTERNSHIP EXPERIENCE

Madras Atomic Power Station – Technical Intern

- Observed industrial operational systems and safety procedures.
- Studied structured engineering workflows and compliance standards.
- Assisted in documentation review and technical process observation.