Premkumar M

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Professional Summary

Motivated and technically skilled B.Tech Information Technology student with strong interests in AI, innovation, and real-world problem-solving. Proven track record of leading projects involving machine learning, blockchain-based NFT generation, and IoT systems. Effective communicator with leadership qualities and a focus on continuous personal and technical development.

Education

Madras Institute of Technology, B.Tech in Information Technology   2022 – 2025
CGPA: 6.5/10
   Kongu Hi-Tek Polytechnic College, Diploma in Mechanical Engineering   2019 – 2022
Percentage: 93.5%   *Rank Holder*
   Bharani Park Matric Hr. Sec. School, SSLC   2017 – 2018
Percentage: 78.2%

Projects

NFTs Generation System using AI and Stable Diffusion
Developed an automated NFT image generation pipeline using Python and Stable Diffusion. Integrated prompt randomization and mixed precision GPU optimization to efficiently create 100+ unique NFT artworks.
   Multi-Layer Encryption System with Random Padding
Built a secure multi-round encryption system using Caesar, Rail Fence, and Substitution ciphers with random padding. Implemented key-based rounds and robust error handling in Python.
   Garbage Waste Classification using SVM in MATLAB
Developed a waste classifier to distinguish between glass, metal, plastic, and paper using MATLAB and SVM. Collected training data, labeled images, and optimized accuracy through experimentation.

Achievements

- Rank Holder in Diploma
- Secured Third Place in Synergy'24 (AUSEC)
- Organizer, College Technical Symposium
- Participant, IGNITE Program by Naan Mudhalvan

Certifications

- IoT in Naalayathiran - IBM SkillsBuild
- Google Cloud Platform Basics (Coursera) *(Optional)*
- Python for Everybody - University of Michigan (Coursera) *(Optional)*

Skills

Languages: C, C++, Python, HTML
Tools
Technologies: MongoDB, Node.js, Google Cloud
Soft Skills: Leadership, Critical Thinking, Management, Communication, Intrapreneurship
Languages Known: Tamil, English