

Vetri Selvan M

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GitHub | LeetCode | HackerRank | Kaggle

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

Python • JavaScript • Java • C • SQL • HTML/CSS

FRAMEWORKS AND LIBRARIES

Machine Learning: TensorFlow • PyTorch • Scikit-learn • OpenCV
Data Analysis: Pandas • NumPy • Matplotlib
Web Development: React • Flask • Tailwind CSS • React Native

TOOLS AND PLATFORMS

Version Control: Git • GitHub
Cloud and Databases: Firebase • SQL
Development Environments: VS Code • Jupyter Notebook • Google Colab

KEY PROJECTS

AI-POWERED TRAFFIC MANAGEMENT SYSTEM | PYTHON, OPENCV, YOLO, FIREBASE

- Developed an intelligent traffic signal control system leveraging computer vision and machine learning.
- Achieved 95% accuracy in real-time vehicle detection using YOLO across diverse environments.

FULL-STACK ML MODEL DEPLOYMENT PLATFORM | REACT, FLASK, TENSORFLOW, SCIKIT-LEARN, TAILWIND CSS

- Architected and deployed a platform showcasing multiple ML models, including:
 - Natural Language Generation: Thirukural Text Generator.
 - Computer Vision: Multi-class Flower Classification System.
 - NLP: Sentiment Analysis and Spam Detection Models.
- Integrated RESTful APIs with Flask for model serving and React for a responsive user interface.

AGRICULTURAL ASSISTANT APPLICATION | REACT NATIVE, FLASK, TENSORFLOW, NLP

- Built a Tamil-language agricultural assistant application with machine learning capabilities.
- Integrated a crop recommendation engine and disease detection functionalities.

INTERACTIVE GAMES WITH AI | COMPUTER VISION, PYTORCH, REINFORCEMENT LEARNING

- Developed a hand-gesture-controlled car and jump game using computer vision.
- Created a Pong game featuring AI gameplay with reinforcement learning.
- Implemented a Tic-Tac-Toe game using the Minimax algorithm for strategic AI gameplay.

ACHIEVEMENTS

- Secured 3rd place in State-Level Codeathon 2023.
- Winner of Programming Contest at Technical Symposium 2023.
- Bronze Medalist in Bug Hunting Competition, DMI College.
- Champion of Technical Quiz, Technical Symposium 2024.
- Awarded 3rd place at GenXreverse Design Festival.
- Solved 120+ problems on LeetCode.
- Earned Gold Badges in Python and Problem Solving on HackerRank.

EDUCATION

DMI COLLEGE OF ENGINEERING
BACHELOR OF ENGINEERING IN
COMPUTER SCIENCE
Chennai, India | 2022 - 2026 (Expected)
CGPA: 8.02/10

DON BOSCO HIGHER SECONDARY SCHOOL
HIGHER SECONDARY EDUCATION
Tiruvallur, India | 2020 - 2022
Score: 81.8%

GOVERNMENT HIGH SCHOOL
SECONDARY EDUCATION
Tirupandiyur, India | 2020
Score: 90%

OTHER SKILLS

- Proficient in Machine Learning and Deep Learning algorithms.
- Skilled in Web Development and Data Analysis.

CERTIFICATIONS

- Google Data Analytics Professional Certificate.
- DeepLearning.ai Specializations (In Progress):
 - Machine Learning.
 - Deep Learning.