

KARTHIK A

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SUMMARY

B.Tech student in Artificial Intelligence and Machine Learning with strong interest in software development and problem-solving. Quick learner with hands-on programming skills and a passion for exploring new technologies. Eager to apply knowledge to real-world projects, contribute to team success, and build a solid career in software development.

SKILLS

Programming Languages: Python
Web Technologies: HTML, CSS
Tools: Git, GitHub, Visual Studio Code, Jupyter Notebook

PROJECTS

- **Cryptocurrency Price Prediction using LSTM**
Built an LSTM-based model to forecast cryptocurrency price direction, achieving nearly 85% directional accuracy. *Tools & Technologies:* Python, NumPy, Scikit-Learn, Matplotlib, Jupyter Notebook
- **Portfolio Website**
Developed a modern, responsive portfolio website with smooth animations and clean UI. *Tools & Technologies:* HTML, CSS, JavaScript

EDUCATION

2022 – 2026 B.Tech in Artificial Intelligence & Machine Learning at **IFET College of Engineering** (CGPA: 7.99)
2021 – 2022 HSC at **New Modern Vidhya Mandir** (74%)
2019 – 2020 SSLC at **New Modern Vidhya Mandir** (90%)

CERTIFICATIONS

- Completed **Introduction to Networks** certification through Cisco Networking Academy.
- Achieved **Arduino Certification** from Puducherry University under ATAL.

PUBLICATIONS

Uncertainty-Aware Hybrid Self-Supervised Multi-Modal Framework for Robust Glioma Detection and Classification

A hybrid deep learning framework integrating self-supervised pretraining, multi-modal MRI fusion, and uncertainty modeling for robust brain tumor analysis. Achieved 99.5% accuracy, strong precision/recall metrics, a Dice score of 94.5%, and excellent calibration (ECE: 0.012, Brier Score: 0.045), outperforming CNN and Transformer baselines.

ADDITIONAL DETAILS

Date of Birth: 07/09/2004
Languages Known: English, Tamil