

Adithyan S Pillai

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PROFILE

Third-year Computer Science Engineering student with a focus on Artificial Intelligence and Machine Learning. Strong proficiency in Python and advanced machine learning algorithms. Experienced in developing and deploying AI-driven solutions to solve real-world problems. Demonstrated ability to lead technical teams and deliver impactful projects. Currently seeking opportunities to further enhance my skills in AI and software development.

EDUCATION

B-Tech in Computer Science (AI and Machine Learning)

Sept 2021 – Jun 2026

Sree Chitra Thirunal College of Engineering, Trivandrum

TECHNICAL SKILLS

Programming Languages: Python, Java, HTML, CSS, JavaScript

Frameworks and Libraries: TensorFlow, OpenCV, Keras, Scikit-learn, Pandas

Tools: Git, Jupyter, VS Code

Databases: MySQL

PROJECTS

Face Recognition System

2024

Machine Learning, TensorFlow, OpenCV

- Engineered a real-time facial recognition system using Convolutional Neural Networks (CNN) to achieve 95% recognition accuracy on a dataset of over 500 images.
- Optimized the system by reducing processing time by 20% compared to earlier prototypes.

Tumor Detection Model

2024

Machine Learning, TensorFlow

- Designed and implemented a tumor detection model, achieving 92% accuracy with a false positive rate below 5%.
- Processed 800+ medical images for model training and validation, improving the data pre-processing pipeline to reduce model training time.

Stock Price Prediction using LSTM

2024

Time Series Analysis, LSTM Networks

- Developed a stock price prediction model using Long Short-Term Memory (LSTM) networks on 10+ years of historical data, improving accuracy by 10% over traditional models.
- Achieved an accuracy rate of 85% on test datasets through advanced time-series analysis.

Emotion Prediction using BERT

2024

Natural Language Processing, BERT Model

- Implemented an emotion detection model, classifying over 10,000 text samples into emotion categories with 90% accuracy.
- Streamlined the pre-processing steps to reduce training time by 15%.

Water Jug Problem Solver

2023

Algorithm Design

- Developed an efficient solution to the Water Jug problem using Depth-First Search (DFS) algorithm, optimizing the search process for minimal steps to reach the goal state.

EXTRACURRICULAR ACTIVITIES

Sub-Committee Member, Technical Team

Sept 2024 – Present

Innovation and Entrepreneurship Development Center (IEDC)

- Coordinated and contributed to the development of technical solutions for center projects, leading technical workshops and hackathons.
- Mentored student teams on project development, focusing on innovation and technical execution.

Volunteer, Google Developer Students Club

Sept 2024 – Present

- Led event organization and supported the development of various student-led projects. Mentored junior members on best practices in coding and project design.

AWARDS

Best Game Developer Award

2024

Sree Chitra Thirunal College of Engineering

- Recognized for developing the winning game in a college-wide game development competition, integrating AI components for enhanced gameplay.