

Adithyan H

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EDUCATION

Mangalam College Of Engineering <i>Bachelor of Technology in Computer Science and Engineering</i>	Ettumanoor, Kottayam 2021–2025
St.Thomas HSS <i>Higher Secondary Education</i>	Thiruvalla, Pathanamthitta 2019–2021
Devaswom Board HSS <i>High school Education</i>	Thiruvalla, Pathanamthitta 2013–2019

PROJECTS

Smart Traffic Analyzer and Controller <i>Python, YOLOv8, COCO, machine learning</i>	August 2024 – May 2025
<ul style="list-style-type: none">Developed an AI-based traffic management system using YOLOv8 for real-time vehicle detection from multiple video feeds, dynamically adjusting signal timings based on vehicle density.Implemented a hierarchical priority algorithm to optimize traffic flow, reducing average signal wait time and improving congestion handling efficiency at intersections.Built a simulation environment using Pygame to visualize smart traffic signal control based on detected vehicle counts from four input lanes.	
College Bus Management System <i>HTML, CSS, MySQL</i>	Jan 2024 – May 2024
<ul style="list-style-type: none">Developed a College Bus Management System to streamline campus transportation with features like route planning, real-time bus tracking, and automated passenger management.Implemented an admin dashboard enabling route assignments, driver scheduling, and live status monitoring, enhancing operational efficiency and reducing manual errors.	
Youtube Downloader Telegram Bot <i>Python, yt-dlp, python Telegram Bot</i>	March 2025 – March 2025
<ul style="list-style-type: none">Developed a Telegram bot for downloading YouTube videos and audio, offering users multiple format options (1080p, 720p, 360p, MP3) with an intuitive user interaction flow.Implemented file size optimization using video encoding for downloads exceeding 50MB, ensuring efficient delivery within Telegram's file size constraints	

TECHNICAL SKILLS

Languages: Python, C, SQL, HTML/CSS
Frameworks: React, Node.js
Developer Tools: Git, VS Code, Visual Studio, PyCharm
Libraries: Pandas, NumPy, Matplotlib

INTERNSHIPS

Internship on Python <i>Facein Technologies Pvt Ltd</i>	December 2024
<ul style="list-style-type: none">Completed a 10-day intensive Python internship at Facein Technologies Pvt. Ltd., gaining hands-on experience in core programming concepts and real-world application development.Developed and debugged Python scripts for data manipulation, automation tasks, and basic algorithm implementation under mentorship from industry professionals.	

CERTIFICATION COURSES

Essentials on Data Science Using Python <i>Livewire kottayam</i>	September 2022–April 2023
<ul style="list-style-type: none">Completed a certified course on “Essentials on Data Science using Python” from Livewire, covering fundamental concepts in data analysis, Python programming, and machine learning basics.Gained hands-on experience with data preprocessing, exploratory data analysis, and Python-based data science libraries such as NumPy, Pandas, and Matplotlib.	

EXTRA CURRICULAR ACTIVITIES

National Cadet Corps

June 2021–February 2024

- Actively participated in the National Cadet Corps (NCC) college unit for 3 years, demonstrating discipline, leadership, and teamwork.
- Successfully completed training camps and drills, contributing to various social service and community development activities.