

# MUTHUMANIKANDAN K

## COMPUTER SCIENCE ENGINEER

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### PROFESSIONAL SUMMARY

Computer Science Engineering student with hands-on experience in Python and Django-based full stack web development. Completed internships Focused on backend development, REST APIs, and database-driven applications. Strong in problem-solving, OOP concepts, and Git-based version control. Actively seeking entry-level Python Developer or Full Stack Developer roles.

### INTERNSHIPS

#### Application Development Intern

RDEGI, Bangalore India, June 2024 - July 2024

- Developed a Django-based web application with modular backend architecture and Implemented user authentication, and database integration
- Designed models and implemented CRUD operations using Django ORM and Used Git for version control and collaborative development

#### MERN Stack Application Development Intern

Codeshell Technologies, Madurai India, June 2025 - July 2025

- Contributed to full-stack development using MongoDB, Express.js, React, and Node.js and Built RESTful APIs and handled database operations.
- Collaborated in an agile team to debug and optimize application performance

### PROJECTS

#### Driver Drowsiness Detection System

Python, OpenCV, MediaPipe

- Built a real-time driver drowsiness detection system using Python, OpenCV, and MediaPipe Face Mesh with webcam-based facial analysis.
- Implemented Eye Aspect Ratio (EAR)-based eye closure detection with temporal thresholding, integrating audio alerts and smoothing techniques to reduce false detections.
- GitHub Link: <https://github.com/muthumanikandankse/drowsiness-detection>

#### Weather Intelligence Agent

Python, FastAPI, Postgresql

- Developed a Weather Intelligence Agent using FastAPI that understands natural language queries and provides real-time weather information.
- Integrated OpenWeatherMap API and PostgreSQL with SQLAlchemy to store and manage weather query data efficiently.
- Designed a responsive HTML/CSS frontend with robust backend error handling and API-driven architecture.
- GitHub Link: [https://github.com/muthumanikandankse/weather\\_agent\\_ai.git](https://github.com/muthumanikandankse/weather_agent_ai.git)

### EDUCATION

#### B.E. Computer Science and Engineering

Annamalai University, Chidambaram • 2022 - Currently Pursuing

#### HSC at Govt Hr. Sec. School, Tamilnadu

Percentage : 81% • 2022

#### SSLC at Govt High School, Tamilnadu

Percentage : 84% • 2020

### SKILLS

Programming Languages : Python, C, C++

Front End : HTML, CSS, JavaScript

Web Frameworks : Django, FastAPI

Database : MySQL, Postgresql

Tools & Version Control : GitHub

Concepts : OOP, REST APIs, SDLC

### CERTIFICATIONS

Cloud Computing – NPTEL (2024)

Social Networks – NPTEL (2025)