

JAHAGANAPATHI SUGUMAR

☎ +91 6379613654 ✉ jahaganapathisugumar@gmail.com [LinkedIn](#) [GitHub](#) [LeetCode](#) [Coursera](#)

Executive Summary

Passionate Computer Science Engineer with expertise in AI, ML, DL, and Full-Stack Development. Skilled in scalable AI solutions, real-time analytics, and end-to-end applications. Proficient in Python, TensorFlow, Keras, and Flask. Driven to build innovative, efficient, and impactful solutions in software development, data science, and AI-powered applications.

Work Experience

Uptricks Services Pvt. Ltd., Pune

May 2024 – July 2024

Python Developer Intern

Remote, Pune, Maharashtra

- Developed an automation tool to streamline the process of sending routine emails to clients, partners, and team members, improving efficiency. Integrated Python with MySQL to manage email scheduling and ensure seamless communication workflows.

Tech Stack: Python, Tkinter, MySQL, SMTPLib, Email Modules.

Generative AI Consortium

Jun 2024 – Oct 2024

AI/ML Intern

Remote, Chennai, Tamil Nadu

- Mastered Core AI/ML Concepts — Documented AI terminologies and created illustrative examples.
- Developed Python-Based ML Applications — Built machine learning models with diverse datasets.

Tech Stack: Python, Machine Learning, AI, Data Processing.

Education

B.E. in Computer Science and Engineering

2022 - 2026

Kongu Engineering College, Erode

Cumulative GPA: 7.91/10 (Till 5th Semester)

Class XII (CBSE)

2021 - 2022

Kendriya Vidyalaya Gandhigram, Dindigul

Percentage: 85.2%

Class X (CBSE)

2019 - 2020

Kendriya Vidyalaya Gandhigram, Dindigul

Percentage: 72.4%

Projects

Smart Spectacles - Obstacle Detector for the Visually Impaired | [Source Code](#)

- Developed a wearable device using Arduino Nano and ultrasonic sensors, ensuring real-time obstacle detection.
- Engineered an energy-efficient proximity-based buzzer feedback mechanism, enhancing safety for visually impaired users.
- Tech Stack:** Arduino Nano, Ultrasonic Sensors, Buzzer, Embedded Systems.

HerProTech - AI-Powered Women Safety Surveillance System | [Source Code](#)

- Developed an AI-based real-time surveillance system using OpenCV and deep learning for detecting harassment incidents.
- Integrated a multi-channel SOS alert system (WhatsApp, SMS, Email, and Voice Activation) to improve emergency response times.
- Tech Stack:** Python, TensorFlow, OpenCV, Flask, Twilio API.

Weather Pro Web - AI-Powered Weather Forecasting Application | [Source Code](#) | [Live Website](#)

- Developed an interactive real-time weather forecasting platform using AI-based data analysis and visualization tools.
- Implemented an intuitive UI with dynamic features such as hourly, weekly forecasts, and real-time weather maps.
- Tech Stack:** Flask, JavaScript, HTML, CSS, Weather API, Bootstrap.

Brain Scan AI - Deep Learning-Based MRI Tumor Detection | [Source Code](#) | [Live Website](#)

- Engineered a deep learning-powered MRI brain tumor classification system using CNNs, automating tumor detection.
- Trained the model on a labeled dataset of MRI scans, achieving a classification accuracy of 89%.
- Tech Stack:** Python, TensorFlow/Keras, OpenCV, Flask, HTML, CSS, JavaScript, Render.

Auto Dispatcher - Automated Email Management System | [Source Code](#)

- Designed and developed an automated email dispatch system with a Tkinter-based GUI and MySQL integration.
- Optimized email workflows using Python's SMTPLib and email modules, reducing manual efforts by 70%.
- Tech Stack:** Python, Tkinter, MySQL, SMTPLib, Email Modules.

Technical & Soft Skills

Languages: Python, Java

Backend: Flask, Node.js, Express.js

Frontend: React, HTML, CSS, Bootstrap, JavaScript

Cloud & Databases: AWS, MySQL, MongoDB

Tools & Libraries: OpenCV, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, PyTorch, Jupyter

Developer Tools: VS Code, Git, IntelliJ IDEA, Thonny, Docker

UI/UX: Figma, Canva

Soft Skills: Problem Solving, Critical Thinking, Time Management, Communication

Achievements

- Won **Third Prize** for presenting “**Xenobots: The First Living Robot**” at the **Indian Institute of Technology Madras (IIT Madras)**.
- Won **Second Prize** for presenting on ”**A Full Analysis of the Science Underlying Polar Technology and Smart Coaching**” at the **Sri Ramakrishna Institute of Technology**.
- Won **Second Prize** at the **Project Expo** for the project ”**Sensory Glasses**” at **Kongu Engineering College**.

Certifications

Crash Course on Python

Google - Coursera

Certificate Link - Covered Python basics, syntax, data structures, and automation.

Python for Data Science, AI & Development

IBM - Coursera

Certificate Link - Covered Python basics, data analysis, and AI applications.

Data Analysis with Pandas and Python

Udemy

Certificate Link - Comprehensive training in data manipulation and analysis using Pandas and Python.

Machine Learning with Python

IBM - Coursera

Certificate Link - Explored ML algorithms, model evaluation, and real-world applications.

Introduction to Deep Learning & Neural Networks with Keras

IBM - Coursera

Certificate Link - Covered deep learning fundamentals, artificial neural networks, and model building using Keras.

Introduction to Cloud Computing

IBM - Coursera

Certificate Link - Gained foundational knowledge of cloud computing, deployment models, and cloud services.

Areas of Interest

- AI & Machine Learning
- Internet of Things
- Cloud Computing

Languages Known

- English (Fluent)
- Tamil (Native)
- Hindi (Intermediate)