# Sujit S

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🔗 Sujit S    📍 Coimbatore, Tamil Nadu

## EXECUTIVE SUMMARY

Tech-driven enthusiast with hands-on experience. Proven ability to build and deploy solutions across domains like medical data analysis, IoT systems, and AI applications. Skilled in end-to-end project development, from research to implementation and user interaction. Eager to contribute in impact-driven tech environments

## EDUCATION

**B.Tech in Artificial Intelligence and Data Science**     2022 – 2026
*Coimbatore Institute Of Technology*     Coimbatore, India
- Currently pursuing 4th year
- Keeping a CGPA of 9.14

**Higher Secondary Certificate**     2021 – 2022
*SAV Balakrishna Matric Hr Sec School*     Tirunelveli, India
- Scored 97.6% from Biology group

## EXPERTISE

- Data Structures and Algorithms
- Python Programming
- Data Visualization
- Data Science
- Web Development (HTML, CSS, JavaScript)
- Machine/ Deep Learning
- C Programminng
- Database Management Systems

## PROFESSIONAL EXPERIENCE

**Student Developer**     08/2024 – 04/2025
*Icliniq - The Virtual Hospital* 🔗     Coimbatore, India
- Medical data analysis
- EHR file storage and manipulation
- Chatbot for user interaction

**Student Researcher**     01/2025
*Telkom University* 🔗     Bandung, Indonesia
- Implementation of IoT in smart hydroponics for data streaming
- Building a python-based web scraper for data collection

**Machine Learning Intern**     07/2024 – 10/2024
*Nunnari Labs Pvt. Ltd.* 🔗     Coimbatore, India
- Implementation of ML algorithms
- Neural Networks (Deep Learning)
- Drive-thru the concepts of Generative AI (Transformers, LLMs)

## PUBLICATIONS

**Integrating Internet of Things for Smart Hydroponics to Increase Productivity** 🔗     04/2025
*IIETA*
- The paper presents an IoT-enabled smart hydroponics system using sensors and automation to enhance plant growth and resource efficiency.
- It integrates cloud-based real-time monitoring via Firebase and a Flask web interface for remote control and data visualization.
- The system improves crop yield by 50%, reducing water consumption and energy usage through optimized light and water management.

# PROJECTS

**PubMed Article Fetcher**                                    04/2025 – present
*AI-Agent*
- Fetches PubMed articles and ranks results using Gemini API and FAISS.
- Automates chunking and embedding of content for semantic similarity search.
- Saves and organizes top articles based on the user's query.

**Digitizing Medical Reports for Enhanced User Interaction**   08/2024 – 04/2025
*LLM based CLI python project*
- Convert medical reports to machine readable format
- Integrated modules like OCR, Chatbot, EHR file storage and manipulation.
- Interactive Command Line Interface for Users

**Brain Tumour Detection**                                    09/2024 – 10/2024
*Deep Learning project*
- Developed a CNN-based tumor detection model
- Integrated Streamlit interface for image upload and real-time result visualization

**Apartment Sales Prediction - EDA and Feature Engineering**   08/2024 – 09/2024
*Data Science approach*
- Handling missing values and filling null values with respect to their mean/median
- Normalized the features displayed the profile in browser using streamlit

**Smart Lab Copilot**                                         04/2023 – 06/2023
*IoT prototype*
- Reducing the utilization of computers where user is not present
- Turning off the lab when no one is present (0 count)
- Reducing the ambient temperature(-25%) when the room heats up

# CERTIFICATES

- AWS Flash - Generative AI with Diffusion Models  🔗
- Introduction to Machine Learning Operations  🔗
- Foundations of Prompt Engineering  🔗
- SQL & Relational Database  🔗
- Generative AI for All  🔗
- Python for Data Science  🔗
- Data Science  🔗

# INTERESTS

Tech Enthusiast  |  Problem-solving  |  Quick-learner  |  Singing