

# ASHRITH SAMBARAJU

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## CAREER OBJECTIVE

As an Engineering undergraduate specializing in AI&ML with a good foundation in data structures, algorithms, and front-end development. Passionate about developing AI-driven solutions and bridging intelligent systems with user-centric applications. Eager to contribute to innovative projects, collaborate with diverse teams, and drive meaningful technological advancements.

## EDUCATION

<b>SPHOORTHY ENGINEERING COLLEGE (JNTUH) - 7.85 / 10.0</b> <i>Bachelors of Technology in Computer Science - AIML</i>	<b>Hyderabad, TG, INDIA</b> <b>2021-2025</b>
<b>LITTLE FLOWER JUNIOR COLLEGE - 8.28 / 10.0</b> <i>Board of Intermediate Education - MPC</i>	<b>Hyderabad, TG, INDIA</b> <b>2019-2021</b>
<b>ST. MARY'S HIGH SCHOOL - 9.0 / 10.0</b> <i>Board of Secondary Education - SSC</i>	<b>Hyderabad, TG, INDIA</b> <b>2018-2019</b>

## PUBLICATIONS

**Lead Author - "Automated Brain Tumor Classification Using Hybrid Deep Learning Models"**, published in the *International Research Journal of Advanced Engineering Hub (IRJAEH)*. DOI: [10.47392/IRJAEH.2025.0318](https://doi.org/10.47392/IRJAEH.2025.0318)

## EXPERIENCE

- VISWAM AI (IIIT-H X Swecha) - AI Developer Intern** *May 2025 - Present*  
Contributing to open-source AI projects addressing real-world challenges in the Global South. Gaining hands-on experience with Python, collaborative development, DevOps, and deploying community-driven AI solutions.
- NextGen Edunet Foundation X EY - MERN Intern** *March 2025 - April 2025*  
Built a dynamic e-commerce web application using the MERN stack as part of the Internship under Edunet Foundation in collaboration with EY, focusing on seamless user experience, user authentication, and efficient product management.
- International Institute of Information & Technology (IIIT-H X Swecha) - AI Developer Intern** *May 2024 - June 2024*  
As an AI Developer Intern, actively participated in an internship program with a 5-day workshop at IIIT Hyderabad, gaining hands-on experience in AI/ML, Deep Learning, & Gen AI. Developed AI-driven solutions for cultural preservation, explored Transformer models.

## PROJECTS

- AI-Powered Brain Tumor Detection & Treatment Recommendation System:** [Link](#)  
Built a hybrid deep learning model using **VGG16**, **ResNet-50**, and **EfficientNetB2** with **Grad-CAM** for automated brain tumor detection. Integrated treatment suggestions, symptom-based screening, and PDF report generation to support clinical decisions.
- E-Commerce Web Application (MERN Stack):** [Link](#)  
Developed a full-stack e-commerce web application using the **MERN** stack with product listing, authentication, and cart features. Built responsive interfaces with **React**, implemented **REST APIs**, and managed data handling with **MongoDB**.
- Blockchain-Based Secure Academic Credential Management System:** [Link](#)  
Designed a secure blockchain system using **Ethers** and **OTP authentication** for tamper-proof credential issuance, storage, and verification. Ensures transparency and integrity for universities, students, and verifiers.

## SKILLS

<b>Programming Languages</b>	- C, Python Programming, R.
<b>AI&amp;ML Frameworks</b>	- NumPy, Pandas, Matplotlib, OpenCV
<b>Database &amp; Data Storage</b>	- MySQL, MongoDB.
<b>IDEs</b>	- Visual Studio, Jupyter, Google Colab
<b>Frontend Development</b>	- HTML, CSS, React, Bootstrap.
<b>Soft Skills</b>	- Communication, Networking, Problem Solving, Prioritization & Task Management.

## CERTIFICATIONS

- Certificate of Participation (*MERN Intern*)
- Certificate of Participation (*AI Intern*)
- Introduction to Natural Language Processing
- Developer Job Simulation
- SQL - Basic, Intermediate
- EY X Edunet Foundation
- Summer of AI, Swecha, IIITH
- Great Learning
- Accenture
- HackerRank

## CO - CURRICULAR ACTIVITIES

- First Prize PRAZASTI-2K24 Techfest Hackathon** - For developing a **Robo Code** project using Java as a Team, held at our college showcasing **teamwork**, **problem-solving**, **adaptability** while innovating in AI-driven automation and programming.
- Hackathon on "Deep Dive into CNN's and NLP"- Developed a **brain tumor detection chatbot** using **APIs** and **Telegram's BotFather**, leveraging **CNN** and **NLP** techniques.