

Ponsai Sanjitha G

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About

Ponsai Sanjitha G is a Computer Science undergraduate from Kalasalingam Academy of Research and Education, Tamil Nadu. She has worked on projects in web development and machine learning. She is passionate about building solutions that bridge technology, social impact and inclusive communication tools. She thrives in both team-based and individual environments and continuously seeks opportunities to grow her skills.



Education

B.Tech - Computer Science and Engineering(Data Science) Kalasalingam Academy Of Research And Education, Krishnankoil, TN 2022-2026	8.51/10 80.3%
Higher Secondary certificate(HSC) Kendriya Vidyalaya, Nagercoil, TN 2020-2022	398/500 79.6%
Secondary School Leaving Certificate(SSLC) The Pioneer School, Nagercoil, TN 2019-2020	426/500 85.2%

Skills

Technical Skills – Java, SQL, Data structures, Python, Object-Oriented Programming, DBMS

Tools – Visual Studio code, Power BI, Canva, Photoshop

Web technologies – HTML | CSS

Soft skills – Management | Communication | Leadership | Public Speaking | Teamwork

Certificates

Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate

Nanotechnology and Climate change, NanoX 2023, VIT.

Paper Presentation – RV College of Engineering, Bengaluru (ICOECA 2025).

Hackare 2.0, 24hrs Hackathon, Vintra2024.

Projects

Sign Language recognition system

Built a software system that converts typed words into corresponding sign language GIFs to support inclusive communication. The tool enhances accessibility for the hearing impaired by bridging language barriers through visual gestures.

- Python |Tensorflow | Keras | LSTM

Smart IoT-Based Water Hammer Monitoring and Control System

Developed a real-time IoT system to detect and mitigate water hammer effects in pipelines using pressure sensors and automated valve control. The system aims to prevent pipeline damage and ensure smooth fluid flow through remote monitoring.

- Arduino UNO | Pressure Sensors | Solenoid Valve | IoT Cloud Platform (ThingSpeak/Blynk)

E-Commerce Learning Platform for Underprivileged Students

Designed and developed a web platform to provide underprivileged learners with access to study materials, live classes, and personalized notes. Included features like login/registration, course tracking, and teacher-student interaction.

- HTML | CSS | PHP | MySQL | VS Code

Paper Publications

Presented Paper: Empowering Communication: A Word-to-GIF Approach for Sign Language Accessibility

5th International Conference on Expert Clouds & Applications (ICOECA 2025)

RV College of Engineering, Bengaluru | 6th–7th March 2025