

**Saintgits College of Engineering (Autonomous)**  
**Biodata for internship in Taiwan under TEEP Scheme**



1. Name of Student	Steny Thankkam Raju
a. Address	Mulavana Puthen Veedu, Kizhakketheruvu P.O, Kottarakara, Kollam, Kerala, India
b. Email id (College)	stenytr.csb2327@saintgits.org
c. Phone no	+919961852803
d. Date of birth	12-01-2005
2. Course: B. Tech / M. Tech	B.Tech
3. Programme	Computer Science and Engineering
4. Batch	CS2023B
5. Current Semester	6
6. Semester at start of internship	6
7. Current CGPA	8.43

8. Career objectives	<p>I am a Computer Science engineering student aspiring to build a career in AI/ML-driven software systems, with a strong interest in developing intelligent, data-centric, and human-centered applications. My objective is to deepen my expertise in applied machine learning, multimodal data analysis, and intelligent system design, and to contribute to research that advances real-world problem solving through technology.</p> <p>I seek to grow under research-oriented mentorship in academic and collaborative environments, where AI/ML forms the core focus, supported by exposure to IoT and blockchain technologies. Driven by peer-to-peer learning and collaborative initiatives, I aim to develop into a research-oriented and socially responsible computer science engineer, contributing meaningfully to academic research and impactful technological innovation.</p>
9. Skill sets (in detail)	<ul style="list-style-type: none"> <li>● Programming &amp; Software Development: Python, Java, C</li> <li>● Machine Learning: Supervised learning, feature engineering, model training and evaluation</li> <li>● Data Analysis &amp; Processing: Pandas, NumPy, structured data pipelines</li> <li>● AI for Media &amp; Language: Speech-to-text processing and frame-level visual analysis, Agentic Ai, Automation(n8n)</li> <li>● Web &amp; Backend Development: HTML, CSS, JavaScript, React, Flask, REST APIs</li> <li>● Systems &amp; Emerging Technologies: system-level understanding of IoT and Blockchain.</li> </ul>

10. Proficiency in software tools	<ul style="list-style-type: none"> <li>● Programming &amp; Scripting: Python, Java, JavaScript</li> <li>● Web &amp; Backend Tools: React, Flask, Node.js, Express.js (basic usage)</li> <li>● Databases: MongoDB, SQL</li> <li>● Data &amp; ML Tools: Scikit-learn, Pandas, NumPy</li> <li>● DevOps &amp; Version Control: Git, GitHub, Linux</li> <li>● Cloud &amp; Containers: AWS (basic usage), Docker (working knowledge)</li> </ul>
11. Soft skills	<ul style="list-style-type: none"> <li>● Analytical thinking and logical reasoning</li> <li>● Self-motivated learner with interest in research and experimentation</li> <li>● Effective teamwork and coordination in diverse groups</li> <li>● Clear technical and verbal communication</li> <li>● Good decision-making, adaptability, and responsibility handling</li> <li>● Strong problem-solving ability</li> </ul>
12. Experience (in detail)	<p><b>Research Intern (Phase I)- Smart Irrigation Systems</b>   <i>IIIT Hyderabad (August 2025- November 2025)</i></p> <ul style="list-style-type: none"> <li>● Developed an AI-enabled IoT smart irrigation system that performs soil-need-based irrigation, ensuring optimal water delivery without overflow or under-irrigation.</li> <li>● Utilized real-time soil and environmental sensor data to automate irrigation decisions, improving water efficiency and supporting sustainable agricultural practices.</li> </ul> <p><b>Industrial Trainee- Intel Unnati Program</b>   <i>Intel Corporation (with Edgegate Technologies Pvt. Ltd.) (June 2025- August 2025)</i></p> <ul style="list-style-type: none"> <li>● Developed an AI-based system to classify network traffic using machine learning, with a web interface for data upload and real-time visualization.</li> </ul>

	<ul style="list-style-type: none"> <li>● Built the solution using Python, Flask, and Scikit-learn, focusing on data processing, model evaluation, and user-friendly result presentation.</li> </ul> <p><b>Internship Trainee - Cybersecurity</b>   <i>NeST Digital Academy (June 2025- July 2025)</i></p> <ul style="list-style-type: none"> <li>● Successfully completed an industry internship focused on system analysis, tooling, and applied problem-solving, gaining hands-on exposure to real-world technology workflows and structured technical environments.</li> </ul> <p><b>Web Development Intern</b>   <i>Intrainz, India (June 2024- January 2025)</i></p> <ul style="list-style-type: none"> <li>● Developed responsive web interfaces using HTML5, CSS3, JavaScript, and Bootstrap for real-world applications.</li> <li>● Worked on two major projects, focusing on usability, clean UI design, and collaborative development.</li> </ul> <p><b>Web Technologies Experience</b>   <i>Saintgits Web &amp; App Development Group</i></p> <ul style="list-style-type: none"> <li>● Gained hands-on experience in web-based system development using HTML, CSS, JavaScript, React, and Flask.</li> <li>● Contributing to multiple collaborative projects, focusing on component-based design, usability, and integration of frontend systems with backend services.</li> </ul> <p><b>Leadership and Team Collaboration Experience</b>   <i>Student Technical and Innovation Communities</i></p> <ul style="list-style-type: none"> <li>● Led and coordinated student-led technical initiatives, mentored peers in web development, and collaborated across multidisciplinary teams.</li> <li>● Actively involved in planning, execution, and peer-to-peer learning activities, strengthening leadership, communication, and teamwork skills.</li> </ul>
--	---


13.Online Certifications	<ul style="list-style-type: none"> <li>● Introduction to Machine Learning- NPTEL, IIT Kharagpur</li> <li>● Advanced Distributed Systems- NPTEL, IIT Madras</li> <li>● Internet of Things: Design Concepts and Use Cases- NITTTR Chandigarh</li> <li>● Generative AI Fundamentals- LinkedIn Learning</li> <li>● Microsoft Azure Fundamentals- Microsoft</li> <li>● Cybersecurity Fundamentals- IBM SkillsBuild</li> <li>● C++ Programming- King's Computer Division (Offline)</li> </ul>
14.Major Achievements	<ul style="list-style-type: none"> <li>● Project Selected- IIIT Hyderabad: AI-enabled IoT Smart Irrigation System approved (Phase I).</li> <li>● 2nd Place- National Hackathon conducted by Google Vipasanā.</li> <li>● Completed Intel Unnati Industrial Training Program.</li> <li>● Finalist- STRIDE Assistive Makethon 2025</li> </ul>
15.Extracurricular activities	<p><b>Leadership:</b></p> <ul style="list-style-type: none"> <li>● Founder- Peer-to-Peer Web Development Club , Saintgits Web &amp; App Development Group</li> <li>● Quality and Operations Lead - Innovation and Entrepreneurship Development Centre, saintgits(Iedc@Saintgits)</li> <li>● Campus Ambassador- TechMaghi Startup</li> <li>● Batch Coordinator- IEEE Student Branch Saintgits</li> <li>● Program Coordinator- Code@Saintgits</li> <li>● Web Master- IEEE CIS Saintgits</li> <li>● Marketing Team - TEDx SAINTGITS</li> <li>● Organizing Committee Member- SATWA National-Level Hackathon</li> </ul> <p><b>Public Speaking:</b></p> <ul style="list-style-type: none"> <li>● Delivered multiple HTML Fundamentals workshop for SWAG (Student Web &amp; App Group).</li> <li>● Conducted a Logic Lab session focused on programming problem-solving for CODE@SAINTGITS.</li> <li>● Led a Low-Code Application Development session for TinkerHub Saintgits.</li> </ul>

16. Internships done in past	<ul style="list-style-type: none"> <li>● Research Intern- Smart Irrigation Systems (Phase I), IIIT Hyderabad</li> <li>● Industrial Trainee- Intel Unnati Program, Intel Corporation (with Edgemark Technologies)</li> <li>● Web Development Intern, Intrainz</li> <li>● Internship Trainee, NeST Digital Academy</li> </ul>
17. Project work (in detail)	<p>AI Movie Director- “Mishraan”</p> <ul style="list-style-type: none"> <li>● Developed a smart AI-based video direction system that automatically analyzes and coordinates video inputs from multiple devices to direct live or recorded shows.</li> <li>● The system uses agent-based automation (n8n) and vision-language models (VLMs) to make intelligent decisions such as camera selection and scene transitions based on visual context.</li> </ul> <p>Smart Public Speaking Companion</p> <ul style="list-style-type: none"> <li>● Built an AI-driven application that analyzes a user’s speaking video to evaluate clarity, pronunciation, and delivery (Agentic AI).</li> <li>● The system performs speech-to-text transcription, captures key video frames to identify speaking issues, and provides personalized feedback and improvement suggestions, including recommended practice videos.</li> </ul> <p>Web-Based Cognitive Engagement Analyzer</p> <ul style="list-style-type: none"> <li>● Developed a web-based AI system to analyze student interaction patterns, including scrolling behavior, reading time, and interaction pauses, to assess cognitive engagement during online learning.</li> <li>● Implemented adaptive content presentation logic based on engagement analysis to improve learner attention and interaction, positioning the system as a research-oriented solution in AI, HCI, and web intelligence.</li> </ul> <p>Smart Irrigation System (AI + IoT)</p> <ul style="list-style-type: none"> <li>● Developed an AI-enabled IoT smart irrigation system that performs soil-need-based irrigation using real-time soil and environmental sensor data.</li> </ul>

	<ul style="list-style-type: none"> <li>The system automates irrigation decisions to prevent over- or under-watering, improving water efficiency and supporting sustainable agricultural practices. The project was reviewed and approved by IIIT Hyderabad Mentor Team.</li> </ul> <p>Network Traffic Classification System</p> <ul style="list-style-type: none"> <li>Designed a machine learning–based classification system using a dataset of over 10,000 records.</li> <li>Performed data preprocessing, feature extraction, model training, and evaluation using Python and Scikit-learn. Integrated the model with a web interface for data upload and result visualization.</li> </ul> <p>College Canteen Digitalization System (Mini Project):</p> <ul style="list-style-type: none"> <li>DBMS-enabled system for managing menu data, orders, and transactions in a college canteen.</li> </ul> <p>Interactive Activity Generator for Student Engagement (Ongoing)</p> <ul style="list-style-type: none"> <li>Currently engaged in an ongoing research project on interactive activity generation for student learning, a research area actively explored across global educational technology initiatives.</li> <li>The work focuses on designing AI-driven, short-form learning activities tailored for Gen Z learners and students with low attention span, aiming to improve engagement, focus, and learning effectiveness.</li> </ul>
18.Name of the Taiwanese University to which the application is submitted to	National Central University
19.Name of the host professor in 8th Taiwanese University	Chia-Hui Chang

<b>DECLARATION:</b>	
---------------------	--

I hereby declare that the above-furnished information is true to the best of my knowledge and belief.

Signature	
Date	06-02-2026