Saintgits College of Engineering (Autonomous)

Biodata for internship in Taiwan.

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	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. 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.
9. Skill sets (in detail)	● Programming & Software Development: Python, Java, C ● Machine Learning: Supervised learning, feature engineering, model training and evaluation ● Data Analysis & Processing: Pandas, NumPy, structured data pipelines ● AI for Media & Language: Speech-to-text processing and frame-level visual analysis, Agentic Ai, Automation(n8n) ● Web & Backend Development: HTML, CSS, JavaScript, React, Flask, REST APIs ● Systems & Emerging Technologies: system-level understanding of IoT and Blockchain.
10. Proficiency in software tools	● Programming & Scripting: Python, Java, JavaScript ● Web & Backend Tools: React, Flask, Node.js, Express.js (basic usage) ● Databases: MongoDB, SQL ● Data & ML Tools: Scikit-learn, Pandas, NumPy ● DevOps & Version Control: Git, GitHub, Linux ● Cloud & Containers: AWS (basic usage), Docker (working knowledge)

11. Soft skills	● Analytical thinking and logical reasoning ● Self-motivated learner with interest in research and experimentation ● Effective teamwork and coordination in diverse groups ● Clear technical and verbal communication ● Good decision-making, adaptability, and responsibility handling ● Strong problem-solving ability
12. Experience (in detail)	**Research Intern (Phase I)- Smart Irrigation Systems |** *IIIT Hyderabad Research Internship Teaser Program (August 2025- November 2025)* ● Developed an AI-enabled IoT smart irrigation system that performs soil-need–based irrigation, ensuring optimal water delivery without over- or under-irrigation. Utilized real-time soil and environmental sensor data to automate irrigation decisions, improving water efficiency and supporting sustainable agricultural practices. **Industrial Trainee- Intel Unnati Program |** *Intel Corporation (with Edgegate Technologies Pvt. Ltd.) (June 2025- August 2025)* ● Developed an AI-based system to classify network traffic using machine learning, supported by a web interface for data upload and real-time visualization. Built the solution using Python, Flask, and Scikit-learn with emphasis on data processing, model evaluation, and user-friendly result presentation. **Internship Trainee - Cybersecurity |** *NeST Digital Academy (June 2025- July 2025)* ● 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. **Web Development Intern |** *Intrainz, India (June 2024- January 2025)* ● Developed responsive web interfaces using HTML5, CSS3, JavaScript, and Bootstrap for real-world applications**.**

	● Worked on two major projects, focusing on usability, clean UI design, and collaborative development. **Web Technologies Experience** | *Saintgits Web & App Development Group* ● Gained hands-on experience in web-based system development using HTML, CSS, JavaScript, React, and Flask. ● Contributing to multiple collaborative projects, focusing on component-based design, usability, and integration of frontend systems with backend services. **Leadership and Team Collaboration Experience** | *Student Technical and Innovation Communities* ● Led and coordinated student-led technical initiatives, mentored peers in web development, and collaborated across multidisciplinary teams. ● Actively involved in planning, execution, and peer-to-peer learning activities, strengthening leadership, communication, and teamwork skills.
13.Online Certifications	● Introduction to Machine Learning- NPTEL, IIT Kharagpur ● Advanced Distributed Systems- NPTEL, IIT Madras ● Internet of Things: Design Concepts and Use Cases- NITTTR Chandigarh ● Generative AI Fundamentals- LinkedIn Learning ● Microsoft Azure Fundamentals- Microsoft ● Cybersecurity Fundamentals- IBM SkillsBuild ● C++ Programming- King's Computer Division (Offline)

14.Major Achievements	● Project Selected- IIIT Hyderabad Research Internship Teaser Program: AI-enabled IoT Smart Irrigation System approved (Phase I). ● 2nd Place- National Hackathon conducted by Google Vipasanā. ● Completed Intel Unnati Industrial Training Program. ● Finalist- STRIDE Assistive Makethon 2025
15.Extracurricular activities	**Leadership:** ● Founder- Peer-to-Peer Web Development Club , Saintgits Web & App development Group ● Quality and Operations Lead - Innovation and Entrepreneurship Development Centre, Saintgits (IEDC@Saintgits) ● Campus Ambassador- TechMaghi Startup ● Batch Coordinator- IEEE Student Branch Saintgits ● Program Coordinator- Code@Saintgits ● Web Master- IEEE CIS Saintgits ● Marketing Team - TEDx SAINTGITS ● Organizing Committee Member- SATWA National-Level Hackathon **Public Speaking:** ● Delivered multiple HTML Fundamentals workshop for SWAG (Saintgits Web & App development Group). ● Conducted a Logic Lab session focused on programming problem-solving for CODE@SAINTGITS. ● Led a Low-Code Application Development session for TinkerHub Saintgits.
16.Internships done in past	● Research Intern- Smart Irrigation Systems , IIIT Hyderabad Research Internship Teaser Program (Phase 1) ● Industrial Trainee- Intel Unnati Program, Intel Corporation (with Edgegate Technologies) ● Web Development Intern, Intrainz ● Internship Trainee, NeST Digital Academy

17.Project work (in detail)	AI Movie Director- “Mishraan” ● Stakeholder: Content creators / Media production teams ● Objective: Automate video direction using AI-driven analysis ● Outcome: Intelligent camera selection and scene transitions using agent-based AI and VLMs Smart Public Speaking Companion ● Stakeholder: Students / Public speakers ● Objective: Improve speaking clarity and delivery using AI feedback ● Outcome: Personalized speech analysis, feedback, and practice recommendations Web-Based Cognitive Engagement Analyzer ● Stakeholder: Students / Educators ● Objective: Analyze learner engagement during online learning ● Outcome: Adaptive content presentation based on engagement patterns to improve attention Smart Irrigation System (AI + IoT) ● Stakeholder: Farmers / Agricultural communities (research internship project) ● Objective: AI-based soil-need irrigation optimization ● Outcome: Automated sensor-driven irrigation; reduced water wastage. The project was reviewed and approved by IIIT Hyderabad Mentor Team. Network Traffic Classification System ● Stakeholder: Network administrators / Organizations (industrial internship project) ● Objective: Classify network traffic using machine learning ● Outcome: Real-time traffic classification via ML model with web-based visualization ● Implemented end-to-end ML pipeline (preprocessing, feature extraction, training, evaluation) using Python & Scikit-learn; integrated with a web interface for data upload and results display

	College Canteen Digitalization System (Mini Project): ● Stakeholder: College Canteen management (academic mini project) ● Objective: Digitize canteen ordering and management processes ● Outcome: Improved order handling, reduced manual effort, faster service Interactive Activity Generator for Student Engagement (Ongoing) ● Stakeholder: Students / Educators (research-oriented project) ● Objective: Generate AI-driven interactive learning activities to improve engagement ● Outcome: Designed short-form, adaptive activities that enhance focus, participation, and learning effectiveness

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
DECLARATION:	

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

Signature	
Date	06-02-2026