

Shreyas Salian

Bangalore, India

Email: shreyassalian1806@gmail.com

Phone: +91-807-3937-419

GitHub: <https://github.com/shreyas250825>

To

Prof. Swapnil Dhamal,

Department of Computer Science Engineering

Indian Institute of Technology Ropar

Subject: Application for Academic Internship / Training (July 15 – September 15, 2025)

Respected Prof. Swapnil Dhamal,

I hope you are doing well.

I am writing to express my keen interest in undertaking an **academic internship / training opportunity under your guidance at IIT Ropar**, for the period **July 15 to September 15, 2025**.

I am currently pursuing my **B.Tech in Electronics and Communication Engineering at MS Ramaiah University of Applied Sciences, Bangalore (Batch 2023–27)**, with a CGPA of **9.76**.

My passion lies in **embedded systems, AI, and automation**, and I have worked on several projects that reflect this, including:

- **Time Table Automation System:** A deployed platform that reduced manual scheduling workload by 70% within my department.
- **AI Mock Interview Simulator:** An adaptive NLP-based tool utilizing transformer models, improving question relevance by 40%.
- **Load Management System (MESCOM Internship):** A Python + Arduino prototype enhancing feeder-level data monitoring and reducing manual tracking time by 30%.

I am inspired by the impactful research and innovation coming out of your department, and I am eager to contribute to your team's work during this period. I am confident that my technical skills, combined with a strong work ethic and sincere eagerness to learn, would enable me to add value while gaining invaluable experience.

Please find attached my resume for your kind consideration. I am happy to provide any additional information you may require and sincerely hope for a positive response.

Thank you very much for your time and consideration.

Sincerely,

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PROFESSIONAL SUMMARY

Electronics and AI student with expertise in Python, TensorFlow, and full-stack development. Passionate about deploying scalable AI and automation solutions, with 5+ deployed projects impacting 1,000+ users. Strong background in embedded systems, machine learning, and web development.

EDUCATION

- **MS Ramaiah University of Applied Sciences**, Bangalore
Bachelor of Technology - Electronics and Communication Engineering; CGPA: 9.76
Sept 2023 – June 2027
- **Indian Institute of Technology Ropar**, Ropar
Minor in Artificial Intelligence and Machine Learning; CGPA: 7.6
Aug 2024 – Aug 2025
- **Dakshina Bharat Hindi Prachar Sabha**
Rashtrabhasha Visharad – Intermediate Degree in Hindi Language
2017 – Sept 2019

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, C++, JavaScript, HTML, Assembly, Verilog (Basics)
- **AI/ML:** TensorFlow, NLP, CNNs, PageRank Algorithm
- **Web Development:** React (Basics), Django, Flask, Firebase
- **Tools & Platforms:** Git, Arduino, Raspberry Pi, MultiSim, VS Code, Google Colab
- **Soft Skills:** Leadership, Project Ownership, Public Speaking, Problem Solving

EXPERIENCE

- **MESCOM – Chikmagalur**, Intern – Load Management System Prototype *Dec 2024 (2 Weeks)*
Developed a Python + Arduino prototype simulating power distribution logic, improving energy monitoring efficiency.
Designed a GUI for real-time feeder-level data visualization, reducing manual tracking time by 30%.

PROJECTS

- **AI Mock Interview Simulator (Ongoing)**
Built a transformer-based NLP model (Hugging Face) for adaptive question flow; integrated a custom scoring API (Flask).
Achieved 40% improvement in response relevance; adding semantic feedback for personalized tips.
- **Time Table Automation System (2024–2025)**
Led development of a GUI-based scheduling platform for ECE department, reducing manual work by 70%.
Scalable across departments; includes login/auth and subject management. Deployed and in use.
- **College NBA Website (2025)**
Developed and deployed the official department website for NBA accreditation, hosting 100+ documents.
Mobile-responsive, Firebase backend, ensuring <1s load time. Certified for deployment.
- **Handwritten Digit Recognition (CNN) (2025)**
Trained a 98.2% accurate CNN on MNIST dataset using dropout layers & batch normalization.
- **Raspberry Pi Attendance System (2025)**
Built face-recognition attendance tracker with real-time web dashboard; reduced manual logging by 90%.
- **Home Automation System (2024)**
Automated appliances via Arduino + sensors, enabling temperature-triggered fan control & remote light operation.
- **Web Page Ranking (PageRank) (2025)**
Implemented NetworkX-based ranking for internal articles; visualized link graphs to identify top 10% influential docs.
- **Tryah.in – Dropservicing Platform (2023–2024)**
Full-stack website with payment gateway & Firebase backend; connected 50+ freelancers with clients.

HONORS & AWARDS

- Certificate of Deployment – Time Table Automation System (2025)
- Certificate of Deployment – College NBA Website (2025)