



भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई-400 076, भारत

Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

दूरभाष/Phone : (+91-22) 2572 2545

फैक्स/Fax : (+91-22) 2572 3480

वेबसाइट/Website : www.iitb.ac.in

IIT Bombay

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CERTIFICATE OF EXCELLENCE

This is to certify that Mr. Siddhant Remma from, worked in my research facility at Machine Intelligence programme in IIT-Bombay from 03rd February, 2025 to 31st August, 2025 as a Research Intern.

During his internship, Mr. Siddhanth worked on a CNC Machine Real-Time Monitoring System. He developed a Docker-orchestrated system using custom Docker images for C/C++ projects, working with Docker Desktop (Windows) and Visual Studio Code. He connected live Haas CNC machine data using the MTConnect protocol, designed PostgreSQL schemas to store real-time machine metrics and built a Python data logger to parse XML data and insert into the database, and integrated PostgreSQL with Grafana to create live dashboards for real-time visualization. In addition, Mr. Siddhanth contributed to a web-based composite materials tool using JavaScript, PHP, Python, and HTML/CSS, implemented CSV-to-HTML table rendering, fixed bugs, validated data, and integrated the front-end with the back-end for deployment.

During his tenure with us, he demonstrated a keen enthusiasm for learning and showed strong comprehension skills. He is diligent, sincere and hard-working. We are very much satisfied with the work that he performed.

We wish him all the best in all his future endeavours.

Asim Tewari

Prof. Asim Tewari
Professor,
Center for Machine Intelligence and Data Science (C-MInDS) and
Department of Mechanical Engineering,
IIT Bombay, Powai, Mumbai 400 076, India
Ph: +91-22-2576-7521.