



Chirag Sharma
Metallurgical Engineering and Materials Science
Indian Institute of Technology Bombay

22B2499
B.Tech.
Gender: Male
DOB: 17/01/2005

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2026	7.75

PROFESSIONAL EXPERIENCE

Software Development Intern | Uneath AI | *Funding : INR 2 lakh* (Feb '24)

SaaS student startup streamlining HR functions for small businesses using AI

- Implemented **OCR** on resumes for extraction of image text, using **Fitz**, **PyTesseract** and **Python Imaging Library**
- Utilized libraries like **Twilio**, **Pandas** and good coding practices to optimize the working of a Whatsapp Chatbot
- Developed prompts and resolved software bugs, in data extraction, conversion and display using **HuggingFace**

KEY PROJECTS

When "LLM" meets "WebDev" | Season of Code | *WnCC, IIT Bombay* (May '24 - Present)

- Achieved **70% improvement** in contextual response accuracy, by prompt engineering on BERT and Gemini LLMs
- Fine-tuned BERT, LLaMA 7B, and Mixtral 8B models using **LoRA** and **QLoRA** techniques, enhancing performance
- Implemented **Retrieval-Augmented Generation(RAG)** on LLaMA model to improve contextual response quality

ML/AI in Materials Science | Summer of Science | *MnP Club, IIT Bombay* (May '24 - Present)

- Acquired knowledge of basic **machine learning principles** and **algorithms**, with focus on material science
- Conducted thorough **research on material science databases**, feature representation, and major applications
- Developed a **basic ML model** to predict the properties of metals and alloys, using the **Materials Project Database**

Landing Page Website | Sustainability Cell, IIT Bombay (Nov '23 - Jun '24)

- Directed the development of the Cell's **new website**, proficiently designing and using HTML, CSS and JavaScript
- Implemented strategic design for **cross-device responsiveness** of the website, enhancing user accessibility
- Orchestrated **efficient maintenance activities**, promptly addressing issues to maintain optimal functionality

Frogmarine | Institute Summer Technical Project (May'23 - Aug'23)

- Designed a **remote controlled submarine bot** in a team of four, protecting the components from water.
- Conducted **analysis of diverse mechanisms** to create an amphibious bot, implementing optimal solutions.
- Developed algorithms** to precisely **control the depth and motion**, ensuring accurate electrical connections.

POSITIONS OF RESPONSIBILITY

Web Manager | Sustainability Cell, IIT Bombay (Jul '24 - Present)

Hub for excelling in Spearheading sustainable solutions through research, technology, and community collaboration.

- Leading a team** of conveners and guiding them to learn relevant skills, to improve and update the Cell's website
- Revamping the single page website to a **multipage website**, along with addition and structuring of the content
- Planning and **improving the UI/UX** of the website and addition of new sections like blogs, announcements, etc

Department Academic Mentor | MEMS Department, IIT Bombay (Jun '24 - Present)

Part of a 29 member team selected from 89 applicants based on a stringent interview process and peer reviews

- Part of a **29 member team** selected from 89 applicants based on a stringent interview process and peer reviews
- Mentoring 6 sophomores** from the MEMS Department, on a one-to-one basis, on various aspects of their life
- Part of the **Design subgroup** in the D-AMP council in charge of **creating posters and presentations** for events

TECHNICAL SKILLS

Programming C++, HTML, CSS, Javascript, ReactJs, Python, NumPy, MATLAB, LaTeX
Software Microsoft Office, Microsoft Excel, Canva, AutoCAD, Figma, Adobe Illustrator

EXTRACURRICULAR ACTIVITIES

Sports	<ul style="list-style-type: none">Completed a year long course in Cricket at IITB under National Sports OrganizationServed as Vice Captain of the School Cricket team playing as an all-rounder in grade 10
Design	<ul style="list-style-type: none">Created 7 design outputs in 4 projects for the flagship event of the Design Club IITBHandling an instagram art page for learning and posting self made sketches and designs
Other	<ul style="list-style-type: none">Participated in the freshie performance of the flagship event of Insync, Dance Club IITBLearning backend development through an online course with NodeJs, and ExpressJs