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Indian Institute of Technology Bombay

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B.Tech.  
Gender: Male  
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Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2027	8.64
Intermediate	JKBOSE	Tyndale Biscoe School	2022	96.20%
Matriculation	JKBOSE	Tyndale Biscoe School	2020	96.60%

## Scholastic Achievements

- Among the top **2.15** percentile in **JEE Advanced** examination out of **0.18** million candidates all over India [2023]
- Secured **99.05** percentile in **JEE Main 2023** examination out of **1.1 million** eligible candidates all over India [2023]

## Professional Experience

**Opulence Business Solutions Pvt. Ltd. | Research Analyst Intern** [Jun'25 - Present]

- Leading an IIT-B intern team to audit **Agentic AI** frameworks, automating IB tasks to project a **25%** cost reduction
- Led strategic audits of **6+** business plans & docs, turning flawed 1.0 concepts into investment-ready **2.0** roadmaps
- Authored a **30**-page strategic report on IB market inefficiencies, directly steering the team's AI product roadmap
- Serving as strategic liaison between firm leadership and the IIT-B team, directing the project lifecycle and execution

## Key Projects

**AI-SaaS Venture | GradPipe | Entrepreneurship Project** [Jun'25 - Present]

- Quantified an **8.8/10** user frustration with career outreach methods through a primary survey of **116+** students
- Authored a VC-grade market analysis defining a **269 Cr** obtainable market using the **TAM-SAM-SOM** framework
- Engineered the MVP, an AI agent on **n8n**, automating resume data extraction via **Google Gemini** and **OCR API's**
- Spearheaded product design from wireframes to a functional API, defining dual **B2C & B2B SaaS** business model

**Financial Sentiment Analysis Using NLP | SentilystAI | Entrepreneurship Project** [Jun'24-Sept'24]

- Trained a predictive **FinBERT NLP** model to predict stock trends from **25,000+** news articles, reaching **73%** accuracy
- Gathered insights from **50+** user interviews with investors analysts to define the essential feature set for the MVP
- Made a data pipeline with the **Quantexa API** to source a continuous stream of news for real-time sentiment analysis
- Led the development of the project's core sentiment engine, delivering the functional Minimum Viable Product

**Prototyping the Universal Testing Machine | Course Project | Prof. Janani Murallidharan** [Aug'23 - Nov'23]

- Worked **first-hand** by coordinating in team of **5** to integrate the electrical and mechanical sub-systems seamlessly
- Executed an innovative version of the **UTM** by implementing **creative** stress and strain measurement techniques
- Successfully quantified and analyzed the **stress vs strain** curve for a given foam sample through an integrated **UI**

**Blog Automation | Self Project** [Sept'24 - Oct'24]

- Developed an end-to-end blog automation pipeline using **OpenAI GPT-4 API**, to automate blog content creation
- Deployed the auto system on **AWS EC2**, leveraging shell scripts for scalable automation and instance management
- Built a custom **Python** scraper with **BeautifulSoup** and fetching trending topics for **SEO**-driven content generation
- Automated browser tasks using **Selenium** and **ChromeDriver**, streamlining blog content publishing on browsers

**Daily Research Intelligence Dashboard | Self Project** [Jun'25]

- Architected a scalable AI platform to consolidate analyst insights and eliminating redundant research duplication
- Implemented semantic de-duplication with **Sentence Transformers** and a custom AI similarity matching engine
- Utilized the **BART** model for text summarization and **RoBERTa** for precise, NLP-based financial sentiment analysis
- Designed a responsive user dash-board using **React** and **Tailwind CSS**, allowing for an intuitive data visualization

**Arsea System-Wide Content Blocker | Self Project** [Jun 2025]

- Engineered a **Windows** system-wide content blocker featuring a **Node.js** background service for **DNS**-level filtering
- Managed a dynamic blacklist of over **184,000 domains**, implementing safe and efficient DNS request manipulation
- Developed a native **system tray application** for simple user control, featuring auto-start functionality on reboot

- Developed an minimal viable product of a productivity companion designed to help people suffering from ADHD
- Built full-stack application with a modern tech stack including **Next.js** and **Tailwind CSS** for a performant experience
- Integrated **Google Firebase** for all backend services, including a real-time database and secure user authentication

XLR8 Project | Electronics and Robotics club | Institute Technical Council

[Aug'23 - Oct'23]

- Built and designed **robotic bot** controlled by a **remote** and completed all the levels at the final hurdle competition
- Learned about the **electronical** working of the bot, its **mechanical parts**, and the **coding** involved in the project
- Made the use of multiple software and skills such as **Fusion 360 & Arduino IDE** among others to create the bot

Positions of Responsibility

Alumni Secretary | Student Alumni Relations Cell | IIT Bombay

[Jun'24 - Mar'25]

Part of a team of 15+ Alumni Secretaries bridging the gap between 65k+Alumni and 12k+ students

- Helped **700+** final-year students in connecting with **250+** alumni mentors via the Placement Mentoring Program
- Served as the sole central facilitator for effective communication between the alumni and the students of Hostel 3
- Provided **80+** internship and research projects catering to **200+** students via the Industrial Learning Program (ILP)

Maintenance Secretary | Hostel 3 | IIT Bombay

[Aug'24 - Mar'25]

Part of a 3-tier team, to ensure maintenance and comfortable living environment for hostel residents

- Managed the estate vertical solely and was overseeing an annual amenities budget of **INR 1M+** for new initiatives
- Spearheaded the installation of 20+ lights on hostel grounds while managing a budget of **INR 0.1M** for the project
- Led the hostel cycle auction, coordinating with the warden and the security office to sell **400+** unclaimed cycles

Operations and Logistics Coordinator | 54th Mood Indigo | IIT Bombay

[Aug'24 - Jan'25]

Asia's Largest College Cultural Festival | Net Worth: **INR 80M** | Footfall: **146K+** | Colleges: **4K+** | Events: **250+**

- Managed logistics and artist requirements for concerts,ensuring smooth execution for a combined footfall of **140k+**
- Conceptualized a **workforce management portal** to streamline the logistical data flow and to improve efficiency
- Strategically re-architecting the crowd flow management protocols to ensure the safe execution of the festival

Teaching Assistant | Student Mentorship Program | IIT Bombay

[May'24 - Jul'24]

Part of ELIT, a 20-member student team helping peers build confidence in their English proficiency.

- Curated learning resources focusing on soft skills, grammar, and writing to coach a cohort of **50+** student mentees.
- Provided weekly **1-on-1** sessions offering personalized guidance to **4** tutees to improve their English proficiency.

Technical Skills

Programming	Python , C/C++ , JavaScript/Node.js , TypeScript , Shell Scripting , SQL , MATLAB , HTML
AI & Data Science	<b>Frameworks/Libraries:</b> Pandas, NumPy, Scikit-learn , BeautifulSoup , PyTorch , Matplotlib <b>Models/APIs:</b> GPT-4, Google Gemini API, FinBERT, Sentence Transformers, BART, RoBERTa
Web & Cloud	<b>Frontend:</b> React, Next.js, HTML5, CSS3, Tailwind CSS, Redux, Vite, Electron <b>Backend/DB:</b> Firebase (Firestore, Auth), Express.js, AWS EC2, Vercel, Git/GitHub
Software & Tools	Fusion 360, $\LaTeX$ , Arduino IDE, ROS, Google Colab, MS Office Suite

Courses Undertaken

Mathematics	Calculus I & II, Linear Algebra, Differential Equations, Probability and Statistics
Machine Learning Specialization* <small>by Stanford University &amp; DeepLearning.AI</small>	Supervised Machine Learning: Regression and Classification; Advanced Learning Algorithms; Unsupervised Learning, Recommenders, Reinforcement Learning
Professional Development* <small>by Google</small>	Crash Course on Python

\* Indicates Online Course

Extra-Curricular Activities

- As Operations Coordinator for **E-Cell**, managed food vendors and resource logistics for the FnB department [2025]
- Pitched a **UN SDG**-aligned social enterprise startup in the **Hult Prize 2024** Qualifiers, competing for the **\$1M** prize [2024]
- As PHO (Infrastructure) Coordinator for **Techfest**, managed sanitation protocols and ensured public health [2024]
- Won the **second** place in **Dramatics GC** while representing my hostel for the Cultural General Championship [2024]
- Curated a **start-up** pitch for an **AI**-based recipe generator in the **EnB Buzz** competition by analyzing customer needs. [2023]
- Won the **third** place in **Debating GC** while representing my hostel for the Freshiezza General Championship [2023]
- Won **High Commendation** at India's International **MUN**-Srinagar, representing Germany in the **G20 summit** [2019]