



Sujay Somani
Civil Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
DOB: 15/09/2004

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

Pursuing a Minor Degree in Machine Learning and Data Science from C-MinDS, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Achieved **Rank 5** in the **Optiver Tradeathon** Competition amongst **400+** students in IIT Bombay [2024]
- Ranked in **Top 50** out of **350+** teams in **Limestone Data Challenge**, **Tower Research Capital** [2024]
- Holding a **Department Rank of 13** among **over 150** students in the Civil Engineering Department [2023]
- All India Rank of 40** in the Undergraduate Entrance Examination conducted by **IIIT Hyderabad** [2022]
- Secured Percentile of **99.17** in **Jee Mains** (1M+ Candidates) and **98.7** in **Jee Advance** (250K+ Candidates) [2022]
- Amongst the **top 300** students in Tamil Nadu for the **Indian Olympiad Qualifier in Mathematics** [2020]

PROFESSIONAL EXPERIENCE

Mutual Fund Intern | Anand Rathi Wealth [June'24-July'24]

Awarded **LOR** from **Head, Mutual Funds** | Wealth Management firm with over **INR 50,000 Crore AUM**

- Created **Model Mutual Fund Portfolio** by analyzing over **40+** **Mutual Funds** using **10+** statistical measures
- Developed a model to evaluate the performance of **over 5 mutual fund managers** across a **3-year period**

Equity Research Intern | Dolat Capital [Nov'23-Dec'23]

- Conducted **Detailed Financial Research** of **Blue Dart Express** to publish the **Company Update Report**
- Analyzed the Financials** and Attended the Investor Meet of **Happy Forgings** to help publish the **IPO report**

PROJECTS UNDERTAKEN

Option Price Modelling | Finance Club, IIT Bombay [June'23-July'23]

- Analyzing Option Pricing based on the **Black Scholes** and the **Binomial Model** using **NIFTY50** index options
- Implemented the **Monte Carlo Simulations** in **Python** with **Numpy** using **Risk Neutral Pricing Strategies**

SustAinify | Sustainability Cell, IIT Bombay [Feb'24]

- Awarded a **Special Mention** for achieving **4th Rank** out of over **400 teams Nationally**
- Analyzed over **7 years of energy data** using the **LSTM model**, achieving a **RMSE** of under **10.2 MWh**
- Optimized sourcing of Energy** to ensure **20 Percent Renewable Energy** usage while Minimizing costs

Automated Chessboard | Tinkerer's Lab [July'23-Sep'23]

- Built the chessboard from scratch using **Arduino**, **Stepper motor**, **Electromagnet** and **Reed Switches**
- Designed and implemented a chess algorithm utilizing **Minimax** and **Alpha-Beta pruning** techniques

Architectural Image Analysis | Prof. Vinay Kulkarni | Course Project [Mar'24-Apr'24]

- Pre-processed over **1100** architectural layout images using **CV2** to extract over **7** features using **Hu-Moments**
- Achieved a **Silhouette score** of **0.86** by clustering images into **4** distinct groups using **K-Means Clustering**

POSITIONS OF RESPONSIBILITY

Institute Student Mentor | Student Mentorship Program [June'24-Present]

- One of only **19 third-year students** selected to serve as an **ISMP** mentor, out of a cohort of over **1,400** students
- Selected to be a part of **149 mentors** aimed at providing **credible counsel** to upcoming first year students

Department Academic Mentor | Department of Civil Engineering [June'24-Present]

- Selected to be part of **31 mentors** out of over **90 applicants** on the basis of Peer Reviews, SOP and Interview
- Mentored **6** sophomores in their academic and extracurricular pursuits by **providing guidance and support**

Institute Tinkerers' Lab Convener | Institute Technical Council [April'23 - March'24]

- Working in a team of **8** to maintain lab resources for **900+** student projects and **10,000+** yearly visits
- Organised **Hackathon** in collaboration with **Hewlett-Packard** with prizes of **\$5000** and **Placement Interview**
- Ensured optimal and efficient use of over **INR 80,00,000** worth of **alumni-funded equipment** and inventory

TECHNICAL PROFICIENCY

Languages and Tools Python, MS Excel, SQL, C++, Matlab, Fusion-360, L^AT_EX

Framework and Libraries NumPy, Pandas, Scikit-learn, Scipy, Matplotlib, TensorFlow, ARIMA

EXTRA CURRICULAR ENGAGEMENTS

- Organised **educational workshop** for **240+** underprivileged school students with the **SMILE Foundation**
- Participated in the **Performing Arts Festival 2023** as a key member of the **Winning Dramatics team**
- Completed extensive year long training in **Lawn Tennis** under **National Sports Organization IIT Bombay**
- Guided a **team of 4 students** in the design and construction of their **Wifi-Controlled Robot** using **Esp32**