Maathangi S   22B3316

Mathematics   B.S.

Indian Institute of Technology Bombay   Gender: Female

DOB: 04/12/2004

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

Pursuing a **Minor** in **Computer Science** and **Engineering**

Scholastic Achievements

- Ranked **top 1%** to qualify for **Indian National Mathematical Olympiad** from the state   *(Oct'19)*
- Secured **AIR 7** & **female topper** of Indian Statistical Institute's (Bangalore) entrance exam *(May'22)*
- Offered **100% scholarship** by Chennai Mathematical Institute (CMI) along with admission   *(May'22)*
- Achieved **AIR 1662** in **JEE Mains** examination among 9,50,000 candidates across the country *(Jun'22)*
- Attained **AIR 3895** in **JEE Advanced** examination among the top 1,50,000 candidates   *(Aug'22)*
- **1 of 10000** recipients of **INSPIRE Scholarship** for meritorious performance in JEE Mains   *('22)*

Positions of Responsibility

Institute Student Mentor | Student Mentor Program   *(Jul'24 - Present)*
- One of **19** third-year students entrusted with the responsibility of mentoring a group of incoming freshers
- Selected from **430+ applicants** via a rigorous procedure comprising of SoP, peer reviews, & interviews

Department Academic Mentor | Mathematics   *(Jun'24 - Present)*
- **1 of 6** members enhancing exchange-program opportunities, student-faculty interactions for sophomores
- Mentoring **4** sophomores across academic & extra-curricular activities via monthly informational sessions

National Entrepreneurship Challenge (NEC) Mentor | Entrepreneurship Cell *(Sep'23 - Feb'24)*
Asia's Largest Entrepreneurship promoting student body recognized by NEN | Patronage from UNESCO
- Managed **15+ colleges** to setup entrepreneurship cells, recruit **60+ members** & organize **15+ events**
- Helped organize a **3-day finale** for **90+ top E-Cells** filtering from 350+ colleges & on-site execution
- Charted milestones for E-cell setup, drafted organizational structures & guided with events planning

Professional & Research Experience

NoQs Digital | Data Analyst Intern   *(May'24 - Jun'24)*
*Received **Best Team Player** award & **Recommendation Letter** from CEO for exceptional performance*
- Reduced time taken in certification process by **95%** (2h to 5 mins) by creating an Excel to Email trigger
- **Developed scrum management tool** to monitor key activities in the org for CEO using Power BI

Zeckendorf Game | Polymath Jr. REU | Research Intern   *(Jun'24 - Present)*
Guide: Prof. Steven J Miller | Department of Mathematics, Williams College, US
- Studying Zeckendorf games and its properties focusing on its bounds in length & **winning strategies**
- Formulating an algorithm to solve an **open problem** that aims to **prove** or **disprove** a winning strategy

Key Projects

Effects of Interest Rate Hikes on Asset Classes | Finsearch | Finance Club   *(Jun'24 - Present)*
- Examined the impact of interest rates over 60 years across **5+** asset classes like **stocks**, **derivatives**
- Analyzing its macroeconomic effects & implementation strategies through expert chats & historic data

Stock Prediction via Deep Reinforcement Learning(DRL)| Research Project *(May'24 - Present)*
Guide: Prof. Sudeep R. Bapat | Shailesh J. Mehta School of Management, IIT Bombay
- Reviewed **15+** research papers & identified key inflection points in history of stock prediction algorithms
- Validating hybrid approach of DRL & sentiment analysis to be a superior trading algorithm using Python

ICICI Bank - Case Study | Course Project | Introduction to Management   *(Dec'22)*
Guide: Prof. Ashish Pandey | Shailesh J. Mehta School of Management, IIT Bombay
- Analyzed various components of its **Business theory** and classified its products using **BCG Matrix**
- Collated a comprehensive report on its general strategies, organizational design, and business setup

Extracurricular Activities

Social	Addressed & inspired **50+** underprivileged students at KalpaVriksha institute about JEE
Cultural	Completed formal training in **Bharatnatyam** and **Western dance** for 2 years
	Performed multiple captivating group dances at the Tamil Cultural Association Fest
Sports	Accomplished **60+** hours of **NCC** training & a 2-month intensive Table Tennis program