



Amartya Mishra
B.Tech, Mechanical Engineering
Indian Institute of Technology, Bombay

Institute ID - 170100042
DOB: 9th June, 1999
UG 4th Year (Batch of 2021)

Contact: +91-8828278243
Email: amartya.anshuman@gmail.com

| Examination | University | Institute | Year |
|-------------|------------|------------|------|
| Graduation | IIT Bombay | IIT Bombay | 2021 |

SCHOLASTIC ACHIEVEMENTS

- Received the **National Talent Search (NTSE)** Scholarship, promoted by **MHRD, Govt. of India** ['15]
- Awarded the prestigious **KVPY Fellowship** by **Dept. of Science and Technology, Govt. of India**; securing **AIR 163** ['16]
- Secured **AIR 460** in **JEE (Advanced)** among 0.16 Million candidates; **AIR 832** in **JEE (Mains)** among 1.2 Million students ['17]
- Placed in **National Top 1%** in the **National Standard Examinations in Physics and Chemistry (NSEP, NSEC)** ['17]

PROFESSIONAL EXPERIENCE

Procter & Gamble | Product Supply Intern, P&G Goa Fem-Care Plant [May '20 - Jul '20]

*Delivered Execution Roadmap for **Predictive Model of Material Utilization**; Reduced Manual Touches in **Process Healthchecks***

- Identified **20+** In-Process Parameters each for **8** operating lines affecting Material Utilization in collaboration with Site Team
- Established 3-yr NPV **benefit of \$77k** and 3-yr **Rol of ~200%** through **Cost Benefit Analysis** of Predictive Model deployment
- Collaborated with **P&G Purchases Team** to select potential **Technology Solution Providers** for the Project Development
- Structured a **3-month** Execution Roadmap for the **Proof-of-Concept** and **Full Scale Deployment** of Predictive Model
- Ideated a Model for Simplification of Monthly Healthcheck Process carried out in P&G Goa Fem-Care Plant

Tavaga Advisory Services | Business Analyst [Dec '19 - Jan '20]

*A Startup that curates User-Specific Investment Portfolio comprising of ETFs; Received **Letter of Recommendation** from **CEO***

- Extensively studied **10+** market competitors and analysed Business models to suggest improvements in company operations
- Analysed Tavaga's business objectives, recommended automation possibilities and performed user acceptance testing
- Contributed content comprising **20+** Financial Term Definitions and Articles for **Tavagapedia**, adhering to **SEO** Guidelines
- Compiled and Analysed Profit Pool and Percentage Revenue used in Marketing of **25+** Top-Performing **AMCs** in **India**

POSITIONS OF RESPONSIBILITY

Creatives and Media Manager | Institute Technical Council, IIT Bombay [Apr'19 – Mar'20]

- Part of a **19 Member Core Team** which was responsible for the execution of various technical activities in the Institute
- Responsible for managing the publicity of **30+ events** aimed to promote the fields of Science and Technology in IIT Bombay
- Collaborated with the **Public Relations Office** of IIT Bombay to improve outreach of events through **Print & Social Media**
- Initiated "**Meet the Team**", a Social Media Initiative intended to promote the activities of **8+ Technical Teams** of IIT Bombay

Department Academic Mentor | D-AMP, Mechanical Engineering [Apr'19 – Present]

- Part of a **39** Member Team, which mentors **185+** students of the Department through academic guidance and counsel
- Selected from over **100+** applicants on the basis of **Extensive Peer Reviews** and overall Interview Performance
- Assisting a mentee in **Academic Rehabilitation Program** to clear backlogs; acting as liaison between faculty and students

Corporate Relations Coordinator | The Entrepreneurship Cell, IIT Bombay [Apr'18 - Mar'19]

- Structured and Executed **Pre-Summit Workshop** in VJTI College, resulting in a participation of **100+** startup enthusiasts
- Engaged in collaborating with **foreign embassies** to improve participation of budding start-ups in global events

KEY PROJECTS

Plastic Zone Size Determination | Solid Mechanics Lab Course Project | Prof. Parag Tandaiya [Mar'19 – Apr'19]

- Prepared a **SENT Specimen** using **EDM Wire Cut** to introduce a crack tip as part of the Student Designed Experiment
- Implemented **Digital Image Correlation (DIC)** to compare theoretical and experimental displacement field near crack tip
- Computed effective stress-strain in **MS Excel** using **Von-Misses Criterion** to determine radius of plastic zone under loading

Image Generating Robotic Arm | Institute Technical Summer Project, IIT Bombay [May '18 - Jun '18]

- Developed an **Edge-Tracking Algorithm** by utilizing processed image obtained through **Canny-Edge Detection** using MATLAB
- Programmed an **Arduino UNO** microprocessor to track the trajectory mapped out, determined using **Inverse Kinematics**

EXTRA CURRICULARS

| | |
|-----------------------------|---|
| Quizzing | <ul style="list-style-type: none">Winner of Digital Round, Mumbai Zone in Numero Yono, a quiz organized by State Bank of IndiaSecured 2nd Position in Surabhi, a state-level quiz organized by Dept. of Mass Education, Govt. of Odisha |
| CERTIFICATIONS & MENTORSHIP | <ul style="list-style-type: none">Mentored 6 students in a reading project on Mathematical Finance, as part of Summer of Science '19Completed certificate courses on Python for Data Analysis and course on Financial Analysis in UdemySuccessfully completed NSE academy + Alphabeta certified course in Equity Portfolio ManagementCompleted a Reading Project on the Financial Crisis of 2007-08 under Prof. Piyush Pandey of SJMSOM, IIT Bombay, studied available literature published by OECD and MIT Sloan School of Management |
| SOCIAL | <ul style="list-style-type: none">Devoted 80+ hours creating videos covering basic science and maths concepts in Odia language under the Open Learning Initiative of NSS, IIT Bombay, assisting teaching in over 500 NGOs across India |