



Kaivaly Daga
Mechanical Engineering
Indian Institute of Technology Bombay

200100078
B.Tech.
Gender: Male
DOB: 9/30/2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	

Pursuing a minor in **Artificial Intelligence and Data Science** at C-MInDS, IIT Bombay | Minor **CPI: 10**

SCHOLASTIC ACHIEVEMENTS

- **One of only 10** students selected across **India** for the **Cargill Global Scholars'** leadership program ('22)
- Holding **Department Rank 1** in a batch of **190+** students | Achieved SPI of **10/10** in the 3rd semester ('22)
- Invited to the **University of Oxford** by the engineering department to pursue a key clinical ML project ('22)
- Conferred with **5 AP grades** in courses across diverse disciplines given only to the **top 2%** of students ('22)

PROFESSIONAL EXPERIENCE

National University of Singapore | **On-site** laboratory work | *Prof. Seeram Ramakrishna* (Jun '22 - Jul '22)

Explored **Meta's \$16 million** project under the guidance of an esteemed researcher with **140,000+** citations

- Investigated **electrospun** nanofibres for improving server cooling using state-of-the-art nanotechnology
- Reduced **carbon emissions** and power usage by **54%** through demonstrating the usage of a novel design
- Identified **sustainable** materials experimentally for **20-60%** improvement in the moisture removal capacity

Research Intern | Proteomics Lab, IIT Bombay | *Prof. Sanjeeva Srivastava* (Jun '21 - Dec '21)

Awarded a **Letter of Recommendation** for exhibiting exemplary skills in the study of computational biology

- Devised a unique **Colorectal Cancer** test by performing statistical analysis of data with **5,000+** features
- Employed **data refinement** techniques on the **Covid-19** data generated via Multiple Reaction Monitoring
- Leveraged **regression** and **neural networks** to increase accuracy in classifying sensitive data into cohorts

POSITIONS OF RESPONSIBILITY

Internship Coordinator | *Placement Office, IIT Bombay* (Jun '22 - Present)

Part of a **24-member** team entrusted with streamlining internships as a liaison for **2,000+** institute students

- Building and fostering relations with leaders across **200+** firms in consulting, banking and FMCG sectors
- Facilitating the organization of internship preparation and resume making workshops for **1,000+** students
- Envisaging a **15% y-o-y** increase in internships by focusing on old statistics, contacting and data-mining

Department Academic Mentor | *Student Mentorship Program, IIT Bombay* (May '22 - Present)

Selected to be part of a **43-member** team through an extensive process of SoP, interviews and peer review

- Responsible for mentoring a group of **6 sophomores**, providing thorough academic and general guidance
- Part of an **8-member** team responsible for organizing multiple **help sessions** of courses for **200+** students

Institute Sports Convener | *Institute Sports Council, IIT Bombay* (May '21 - Apr '22)

Part of a 3-tier **34-member** team selected for the upliftment of sporting culture, catering to **10,000+** students

- Launched an Instagram page for Table Tennis, increasing the reach by **240%** in a month via directed posts
- Conducted **Aavhan** chess tournament for **900+** participants from **10+** countries and a prize of **INR 135K+**

TECHNICAL PROJECTS

Football Predictions using Machine Learning | *Course Project* (Sep '21 - Nov '21)

- Achieved over **53%** accuracy, outperforming predictions made by the **top 5** bookmakers in the UK for EPL
- Generated visualizations for **exploratory data analysis** using Seaborn and Matplotlib libraries in Python

Snake AI Reinforcement Learning | *WnCC, IIT Bombay* | *Summer of Code* (Mar '21 - Jul '21)

- Executed the renowned **Nokia snake** game using a single tabular reinforcement learning agent in **Pygame**
- Attained high scores of **79+** by using the **Q-learning** algorithm to train the agent to play the snake game

EXTRACURRICULAR ACTIVITIES

- **Teaching Assistant** for **5+** courses conducted by various departments; mentoring **300+** students ('21 - '22)
- Volunteered for NSS Umeed, an IIT Bombay student-run **social initiative** for **tutoring** children in need ('21)
- Achieved **1st** place for designing a **3D model** of a futuristic desk setup using **Blender** at a **national** ('17) industrial design championship sponsored by Autodesk; which has seen **85,000+** participants to date
- Finished the challenging under-16 **Goa Triathlon** in a personal best aggregate time of under 2 hours ('16)
- Recipient of the **Times of India - Student Of The Year** award on the grounds of leadership and talent ('16)
- Attained the **Goethe-Zertifikat A1** for elementary proficiency in written and spoken forms of **German** ('16)