

I am a technology and policy analyst specialising in Responsible AI, technology governance, and regulatory frameworks, with applied experience evaluating AI/ML deployments across IT/ITES, CAD/CAM/CAE engineering, VFX/SFX pipelines, digital media, healthcare, and academic research. My work spans AI risk assessment, system evaluation, standards compliance, and governance, integrating an engineering and modelling-and-simulation background with hands-on exposure to ML methods and deep familiarity with global regulatory ecosystems and different frameworks. I also maintain active interests in defence and strategic technologies. Driven by a multidisciplinary outlook on the long-term impacts of frontier technologies, I aim to contribute to research and real-world projects advancing Responsible AI and emerging-technology governance.

EDUCATION

Doctoral Student	<i>Indian Institute of Technology Bombay</i>	Jan 2021- Present
Master of Technology in Modelling and Simulation	<i>Defence Institute of Advanced Technology, Pune</i>	May 2018
Bachelor of Engineering in Mechanical Engineering	<i>Shivaji University, Kolhapur</i>	May 2014

SKILLS

Programming & Analytics	Python; Git; \LaTeX ; MATLAB; R; SQL/NoSQL; PowerBI; Responsible AI toolkits; Microsoft Excel; SurveyCTO;
Tools	QualCoder
Governance & Standards	EU AI Act, GDPR, DPDP, NIST AI RMF, ISO/IEC (standards literacy via IITB access)
Research Methods	Directed Qualitative Content Analysis (DQCA); Stakeholders Interviews; Quantitative Data Analysis; Modeling and Simulation for System Analysis; Advanced Statistics Techniques; Optimization; Machine Learning
Communication	English, Hindi, Marathi, German (early A1)

OTHER COURSES AND CERTIFICATIONS

J-PAL 102x: Designing & Running Randomized Evaluations	Jun 2022
<i>Abdul Latif Jameel Poverty Action Lab (J-PAL)</i>	<i>Department of Economics, Massachusetts Institute of Technology</i>
AI Safety Fundamentals: Governance	April-July 2024
<i>AI Safety Fundamentals</i>	<i>A Project by BlueDot Impact</i>

EXPERIENCE

PhD Research Scholar	Jan 2021 — Present
<i>Indian Institute of Technology, Bombay</i>	<i>Mumbai, India</i>
• Conduct research at the intersection of AI governance and applied ML, including hands-on system analysis, model-behaviour evaluation, and replication of FATE+ fairness and explainability experiments.	
• Conduct fieldwork and technical assessments of real-world AI/ML deployments across IT/ITES, CAD/CAM/CAE, VFX/SFX, digital media, healthcare, and academia using interviews, surveys, and workflow evaluations.	
• Support teaching for graduate courses on AI & Data Policy in India and Future of Work, contributing to curriculum design, grading, and student mentoring.	
• Organise seminars, workshops, and conferences, managing planning, logistics, and stakeholder coordination.	
Policy Research Intern	May 2022 — June 2022
<i>Software Freedom Law Centre (SFLC.in)</i>	<i>Delhi, India</i>
• Analysed collective rights and data-governance models, strengthening organisational positions on privacy, digital freedoms, and open technologies.	
• Authored a conference proposal selected for consideration at APiIGF 2022, shaping discourse on regional internet governance.	
• Developed a comparative India-EU AI governance assessment, mapping national AI initiatives against EU's human-centric standards to inform organisational strategy.	
Lecturer	June 2015 — Jan 2016
<i>YSPM's YTC College of Engineering & Polytechnic, Satara</i>	<i>Satara, Maharashtra</i>
• Taught core engineering subjects including Power Engineering, Computer-Aided Drafting (CAD), Metrology, and Quality Control (MQC), delivering practical, industry-aligned instruction to diploma and undergraduate students.	
• Served as Training & Placement Officer, coordinating industry outreach, student placement support, and employability initiatives.	
• Handled department-level MSBTE compliance documentation and served as External Supervisor for CAD and MQC exams.	
Lecturer	Feb 2015 — May 2015
<i>Dnyashree Institute of Engineering & Technology, Satara</i>	<i>Satara, Maharashtra</i>
• Delivered coursework in Fluid & Turbo Machinery and Basic Mechanical Engineering, integrating theory with real-world engineering examples.	
• Prepared and evaluated assignments, tutorials, and tests; supported academic planning within the department.	

Industrial Trainee

Mutha Founders, Satara

June 2013

Satara, Maharashtra

- Worked in molding and quality control departments, gaining foundational industrial exposure.

CONFERENCE PAPERS

International Conference on New Technologies and the Future of Work in the Global South

17 July 2023 – 19 July 2023

- Organizers: The Institute for Human Development (IHD), International Labour Organisation (ILO) and the Southern Centre for Inequality Studies, Wits University, South Africa in collaboration with NITI Aayog, Government of India.
- Paper Title: Human Resource Analytics and Artificial Intelligence: Disruptive Technologies with Disparate Implications for Labor in the Global South - A Policy Study of the Indian Context

The 6th International Conference on Public Policy (ICPP6)

27 Jun 2023 – 29 Jun 2023

- Organizers: The International Public Policy Association (IPPA)
- Paper Title: The Interplay of AI, Policy, and Workforce in India: An Analysis of Governance and Innovation Dilemma

NON ACADEMIC PUBLICATIONS

Why AI and the jobs crisis don't feature in the 2024 general election

14 May 2024

- AI technology is created and imposed by industry and governments and can be halted, reimagined, and deployed for other ends by democratic interventions. Social security in platforms is a start but should not stop us from concrete and specific policymaking on the AI. <https://indianexpress.com/article/opinion/columns/ai-jobs-crisis-2024-general-election-9325348/>

WORKSHOPS AND OTHER EVENTS

Economy & Society Winter School, 2024

Dec 2024

by New Political Economy Initiative, IIT Bombay

THESIS AND PROJECTS

M.Tech. Thesis

Jul 2017 – Apr 2018

- Internal Ballistic Modelling of Solid Rocket Motors Using A Level Set Method for Simulating Grain Burnback

B.E. Project

Jul 2013 – Apr 2014

- The Quasi Static Turbine (A Modified Curved Shaped Pelton Wheel Turbine for Hydraulic Power Generation)

ACTIVITIES

- In 2024, I had the privilege of delivering an introductory lecture on Artificial Intelligence and Machine Learning at a faculty training program organized by the Department of Automation and Robotics at Dr. DY Patil Institute of Technology, Pimpri, Pune. Also, a seminar titled "Cracking the Code: An Introduction to AI, Data, and Policy" at the Centre for Culture, Media, and Governance (CCMG) at Jamia Millia Islamia, Delhi. The seminar and ensuing discussion covered various topics including: What is AI and its evolution?, Understanding Data, Policy connections, challenges, and case studies. Additionally, I was invited as a guest speaker for the AI and School Education dialogue organized by the Yashwantrao Chavhan Centre in Mumbai. This event brought together school teachers, education officers, researchers, and other professionals associated with the field of school education. The informal discussion revolved around the utilization and challenges of AI within the context of school education.
- In 2023, I had the privilege of serving as a guest speaker for the Youth Advocacy for Suicide Prevention (YASP) Fellowship, a pivotal component of the Outlive initiative. This impactful fellowship, supported by Comic Relief and organized collaboratively by the Centre for Mental Health Law & Policy, ILS Pune, Sangath, and Quicksand Design Studio, gathered a cohort of 12 fellows with the goal of empowering young advocates.
- I served as a Cultural Coordinator throughout my undergraduate years, engaging in and winning numerous Elocution and Debate Competitions. Additionally, I actively participated in paper presentation events. Continuing into my postgraduate years, I developed a passion for Blog Writing, achieving notable success as a twice-winner of the Blog-benchers competition organized by the Indian Express Group's Marathi daily, 'Loksatta.' During my PhD tenure at the IIT Bombay campus, I joined various activities, including Trekking, the Group for Rural Activities (GRA), and the Policy Club.
- I also write for various web portals like 'The Wire: Marathi' and popular periodicals like 'Loksatta', a Marathi newspaper published by the Indian Express Group, 'Divya Marathi', a Marathi newspaper published by the Dainik Bhaskar Group.