

## EDUCATION

PhD, Ashoka University, India	2018 – Present
M.E., BITS, Pilani, India	2007-2009
B.E.(Hons), BITS, Pilani, India	2001-2005

## WORK EXPERIENCE

<b>Research Fellow</b> <i>Ashoka Mphasis Lab, Ashoka University</i> <ul style="list-style-type: none"><li>Area of research: Ensemble methods in machine learning on tabular data for medical applications</li></ul>	<b>JUN 2021 — Present</b> <i>Sonipat, India</i>
<b>Assistant Professor</b> <i>Presidency University</i> <ul style="list-style-type: none"><li>Taught various courses for students from the School of Engineering from 1<sup>st</sup> year to 4<sup>th</sup> year</li><li>System administrator for Moodle (open-source learning management system), conducted online exams for university students, entrance exams for PhD students</li><li>Provided technical expertise and developed solutions for the office of Controller of Examination to make exam results available online</li><li>Provided technical expertise and developed solutions for the office of Practice School to manage the entire workflow of students' internship</li><li>Starting with the inception of the university, helped set up various academic and administrative processes, mentoring students, and guiding them in their projects</li></ul>	<b>AUG 2015 — JUL 2018</b> <i>Bangalore, India</i>
<b>Tutor</b> <i>Gurukul</i> <ul style="list-style-type: none"><li>Taught mathematics for students of class IX to class XII</li></ul>	<b>OCT 2012 — MAR 2015</b> <i>Pichhore, India</i>
<b>Teaching Assistant</b> <i>BITS, Pilani</i> <ul style="list-style-type: none"><li>Assisted in teaching and development of various courses at the undergraduate level</li><li>System administrator for mail Server for 5000 users running on LAMP stack</li><li>Exam portal maintenance and development for the division of Work-Integrated Learning Programs (WILP)</li></ul>	<b>AUG 2007 — JUL 2009</b> <i>Pilani, India</i>

## RESEARCH EXPERIENCE

<b>On the (In)Significance of Feature Selection in High-Dimensional Datasets</b> <i>Under review</i>
<b>Adaptive machine learning for HIV drug demand forecasting: a case study in india</b> <i>Poster accepted at Epidemics to be held (30 Nov – 3 Dec 2025)</i>
<b>OncoMark: A High-Throughput Neural Multi-Task Learning Framework for Comprehensive Cancer Hallmark Quantification</b> <i>Accepted for publication at Communications Biology, 2025</i>
<b>BharatSim: An agent-based modeling framework for India</b> <i>PLOS Computational Biology, 2024</i>
<b>Poster presentation titled "Machine Learning Methods for Enhanced Forecasting of Antiretroviral Therapy Demand in India"</b> <i>Gupta-Klinsky India Institute, Johns Hopkins University, 2024</i>
<b>Poster presentation titled "Machine Learning Methods for Enhanced Forecasting of Antiretroviral Therapy Demand in India"</b> <i>STEM Expo - "Caliper", Ashoka University, 2024</i>
<b>Poster presentation titled "FedTree: Federated Learning on Tabular Medical Data"</b> <i>ICGA, 2023</i>
<b>Oral Presentation titled "SynthPop++: A Hybrid Framework for Generating A Country-scale Synthetic Population"</b> <i>AI4ABM Workshop, ICLR, 2023</i>
<b>Oral Presentation titled "Generating Synthetic Population"</b> <i>New in ML Workshop at ICML, 2022</i>
<b>Error analysis in the reconstruction of a parabola in 3D from two arbitrary perspective views</b> <i>Proc. SPIE 5675, Vision Geometry XIII, 2005</i>

## PATENTS

### CANCER HALLMARK ACTIVITY QUANTIFICATION SYSTEM

Patent filed at the Indian Patent Office, July 2025

## TALKS/SEMINARS

### BharatSim: An agent-based modelling framework for India

Mar 2025

1st Agent-based Modeling India Workshop, IIM Kozhikode

### Monkeys on Typewriters: Is Feature Selection Useful for High-Dimensional Data?

Nov 2024

CS Colloquium, Ashoka University

### Tech, Data and CS

Jun 2024

Young Scholars Programme, Ashoka University

## INTERNSHIPS

### DevTest Intern JUL 2004 — DEC 2004

Netscaler Pvt. Ltd., Bangalore, India

- Test Automation for High Availability using PERL modules
- Responsibilities included writing test plans and test scripts(Using PERL) for High Availability (HA) feature of NetScaler device family

### Intern MAY 2003 — JUL 2003

Chambal Fertilizers and Chemicals Ltd, Kota, India

- Relay co-ordination studies using ETAP
- Conducted literature survey for relay coordination between the primary and secondary relay
- Analysis using ETAP (Electrical Transient Analyzer Program) software

## SKILLS

Machine Learning/Data Science	NumPy, Pandas, SciKit-learn, Excel
Programming Languages	C, Python, PHP, Perl, R
Tools	Git, $\text{\LaTeX}$
Other	MySQL, LAMP administration, Web Content Development and Management
Communication	Hindi (Mother tongue), English(fluent), French (basic)

## PROFESSIONAL ACTIVITIES

Reviewer for the Tiny Papers at ICLR	2024
Attended the workshop on Computing Research in Curricula: Knowledge, Education & Training conducted at IITGN	Feb 2024
Member of Program Committee for the Table Representation Learning (TRL) workshop at NeurIPS	2023
Graduate Teaching Assistant for AI/ML Winter School organised by Princeton University and Ashoka University	Dec 2022
Volunteered at ICML	Jul 2022
Volunteered at ICLR	Apr 2022
Volunteered as Tech Producer for Teleconference Sessions and HelpDesk Operations at GECCO	Jul 2021
Volunteered at Big Data Analytics (BDA) Conference	Dec 2020
Placement volunteer for the Computer Science Association (CSA), BITS, Pilani	Jan-May 2005

## AWARDS AND ACHIEVEMENTS

Shared 1st place in national-level C Programming contest 'Smash the BUG' held during APOGEE, BITS, Pilani	Mar 2005
Shared 1st place in national-level C Programming contest 'CHAOS' held during APOGEE, BITS, Pilani	Mar 2004
Merit-cum-Need Scholarship recipient at BITS-Pilani during First Degree	2001-2005
Ranked 1st among 200,000+ students in the Class XII Merit List of the Madhya Pradesh State Board	2001
Won 1st Prize in an essay competition organized by the Ministry of I&B, Government of India in class XII	2001
Ranked 39th among 200,000+ students in the Class X Merit list of Madhya Pradesh State Board	1999

## MISCELLANEOUS

Actively participated in events/competitions organized in Citrix Systems India Pvt. Ltd., Bangalore, India	2005 – 2006
Acted in a stage play during a Theatre workshop organized by Hindi Drama Club, BITS, Pilani, titled <b>Til ka Tad</b>	2005