

Bhavesh Neekhra

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EDUCATION

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

WORK EXPERIENCE

Research Fellow <i>Mphasis Lab for Machine Learning and Computational Thinking, Ashoka University</i> <ul style="list-style-type: none">Generated country-scale synthetic population using a novel hybrid of statistical and machine learning modelsLed a team to collate, clean and make available cell gene expression data from open sourced dataset to make it usable for ML modelsCurrently exploring use of classical machine learning models on tabular medical data	JUN 2021 — Present <i>Sonapat, India</i>
Assistant Professor <i>Presidency University</i> <ul style="list-style-type: none">Engaged from the inception of the university, helped set up various academic and administrative processesTaught various courses for students from School of Engineering from 1st year to 4th yearSystem administrator for Moodle (open-source learning management system), conducted online exam for university students, entrance exam for PhD studentsProvided technical expertise to the office of Controller of Examination to make exam results available onlineProvided technical expertise to the office of Practice School to develop an online portal to manage entire workflow of students internship	AUG 2015 — JUL 2018 <i>Bangalore, India</i>
Tutor <i>Gurukul</i> <ul style="list-style-type: none">Helped school children in learning problem solving techniques,Taught mathematics for students of class IX to class XII	OCT 2012 — MAR 2015 <i>Pichhore, India</i>
Teaching Assistant <i>BITS, Pilani</i> <ul style="list-style-type: none">Assisted in teaching and development of various courses at undergraduate levelSystem administrator for mail Server for 5000 users running on LAMP stackExam portal maintenance and development for the division of Work-Integrated Learning Programs	AUG 2007 — JUL 2009 <i>Pilani, India</i>
Software Test Engineer <i>Citrix Systems India Pvt. Ltd.</i> <ul style="list-style-type: none">Developed and maintained in-house softwares as a Member of Networking DevTest teamWorked on Regression testing and Unit testing for High-Availability(HA) feature of NetScaler device familyExtensive experience working with LAMP stack	JUN 2005 — DEC 2006 <i>Bangalore, India</i>

RESEARCH EXPERIENCE

BharatSim: An agent-based modeling framework for India <i>PLOS Computational Biology, 2023 Under Review</i>
Poster presentation titled "FedTree: Federated Learning on Tabular Medical Data" <i>ICGA, 2023</i>
Oral Presentation titled "SynthPop++: A Hybrid Framework for Generating A Country-scale Synthetic Population" <i>AI4ABM Workshop, ICLR, 2023</i>
Oral Presentation titled "Generating Synthetic Population" <i>New in ML Workshop at ICML, 2022</i>
Error analysis in the reconstruction of a parabola in 3D from two arbitrary perspective views <i>Proc. SPIE 5675, Vision Geometry XIII, 41 (January 31,2005) Published</i>

SKILLS

Machine Learning/Data Science	NumPy, Pandas, SciKit-learn, Excel
Programming Languages	C, Python, PHP, Perl
Tools	Git, \LaTeX
Communication	Hindi (Mother tongue), English(fluent), French (basic)

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ACTIVITIES

Volunteer at ICLR, 2022	Apr 2022
Volunteered as Tech Producer for Teleconference Sessions and HelpDesk Operations at GECCO, 2021	2021
Volunteered as Tutor with Gyaan Bodh, NGO Nirmaan, Pilani	2007 – 2008
Acted in a theatre production, titled Til Ka Tad	2005