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INTERESTS	Computational Biology, Bioinformatics, Cancer Genomics, Machine Learning	
EDUCATION	<b>Indian Institute of Technology, Bombay</b> , Mumbai, India Bachelor and Master of Technology in <b>Electrical Engineering</b> Jul 2015 – Jun 2020 Specialization in Communications and Signal Processing Honors in Electrical Engineering with Major Cumulative GPA of <b>9.48/10</b> Minor in Computer Science & Engineering	
RESEARCH EXPERIENCE	<b>Bayesian Framework for Cancer Survival Prediction and Prognosis</b> <b>Electrical Engineering, IIT Bombay</b> Apr 2019 – Present Master's Thesis; Advisor: <b>Prof. Amit Sethi</b> Built an end-to-end pipeline for uncertainty estimation in cancer survival prediction using genomics information and some clinical features available in TCGA-BRCA	
	<b>Stochastic Activation and Bistability in a Rab GTPase Regulatory Network</b> <b>Mechanobiology Lab, National University of Singapore</b> Jul 2018 – Aug 2019 Guide: <b>Prof. Timothy Saunders</b> Stochastic and deterministic reaction diffusion modeling and in-vitro experiments help discover the positive feedback present in Rab5 activation switch	
	<b>Phenotype Switching during Tumor Necrosis Factor alpha signalling</b> <b>Biomolecular Engineering Lab, IIT Bombay</b> Dec 2017 – Dec 2018 Guide: <b>Prof. Ganesh Viswanathan</b> Designed community detection algorithms which takes care of functional commonality of proteins in the hand-crafted protein-protein interaction network for TNF alpha signaling	
	<b>Image Analysis and Modelling of pattern formation in Hibiscus petals</b> <b>University of Cambridge</b> May 2018 – Aug 2018 Guide: <b>Prof. Edwige Moyroud</b> Developed Image processing pipeline and computational spatio-temporal models to quantify and explain the red bull's pattern in Hibiscus Trionum petals	
PUBLICATIONS	<b>Bayesian Framework for Cancer Survival Prediction</b> Sep 2019 Molecular Analysis for personalized therapy (MAP) congress 2019 <b>Hrushikesh Loya</b> , Deepak Anand, Pranav Poduval, Neeraj Kumar and, Amit Sethi	
	<b>Phenotype Switching during Tumor Necrosis Factor alpha signalling</b> May 2019 17th international TNF Superfamily conference <b>Hrushikesh Loya*</b> , Shubhank Sherekar*, Sonal Manohar*, Reshma Patil, Ganesh Viswanathan	
	<b>Phenotype Switching during TNF<math>\alpha</math> - TNRF1 Signaling</b> Oct 2019 <b>Best Poster Award</b> 9th Nextgen Genomics, Biology, Bioinformatics and Technologies Conference <b>Hrushikesh Loya*</b> , Shubhank Sherekar*, Sonal Manohar*, Sharmila Biswas, Reshma Patil, Ganesh Viswanathan	
UNDER REVIEW	<b>Stochastic Activation and Bistability in a Rab GTPase Regulatory Network</b> In review for Nature Cell Biology Urban Bezaljak, <b>Hrushikesh Loya</b> , Beata Kaczmarek, Martin Loose, Timothy Saunders	
	<b>Mixture Distributions for Scalable Bayesian Inference</b> In review for 8th International Conference on Learning Representations (ICLR) Pranav Poduval, <b>Hrushikesh Loya</b> , Rajat Patel, Sumit Jain	

\*Equal Contribution

ACADEMIC HONORS	Recipient of the <b>Institute Academic Prize</b> at IIT Bombay <span style="float: right;">2016 – 2017</span> For being one of the top two in the department based on a year's performance		
	Among <b>top 3</b> in Electrical Engineering batch of 82 students		
	Awarded <b>TFI-LEaRN Scholarship</b> for semester exchange in NUS <span style="float: right;">Jul 2018 – Dec 2018</span> 1 out of 45 scholars from Asia to be recognized as Leaders of tomorrow		
	Awarded an <b>A+ Grade</b> in <b>3 courses</b> Grade awarded to a select few for <b>exceptional performance</b> in a course In Biopotential I: Cellular Signals, Computer Vision, and Introduction to Computational Biology		
TEACHING EXPERIENCE	BB101: Introduction to Biology Department of Biosciences and Bioengineering, IIT Bombay <span style="float: right;">Spring 2017</span> Teaching Assistant with Prof. Ambarish Kunwar and Prof. Rohit Manchanda for first year UGs		
	MA205: Complex Analysis Department of Mathematics, IIT Bombay <span style="float: right;">Autumn 2018</span> Teaching Assistant with Prof. Sudarshan Gurjar for second year Engineering UGs		
	MA207: Partial Differential Equations Department of Mathematics, IIT Bombay <span style="float: right;">Autumn 2018</span> Teaching Assistant with Prof. Ronnie Sebastain and Prof. Manoj Keshari for Engineering UGs		
	EE308: Communication Systems Department of Electrical Engineering, IIT Bombay <span style="float: right;">Autumn 2019</span> Teaching Assistant with Prof. Gaurav Kasbekar for third year Electrical Engineering UGs		
	<b>Biotech Club Manager</b> <b>Institute Technical Council</b> <span style="float: right;">Apr 2017 – Apr 2018</span> Part of 55 member council responsible for developing and promoting technical activities in institute Headed team of 3 conveners with aim of promoting events and projects in interdisciplinary Biology		
	<b>Marketing Coordinator</b> <b>Techfest, IIT Bombay</b> <span style="float: right;">Apr 2016 – Dec 2016</span> Guided and coordinated with a team of 10 students to procure sponsorships worth INR 1 million Assisted in setting up 150+ Diabetes Screening Camps to spread awareness among 100,000+ people Volunteered in <b>National Social Service, India</b> to promote a green campus Administered installation of bouldering wall & facilitated camps for 800+ enthusiasts		
ACADEMIC DOMAIN	<b>Probability and Statistics</b> Advanced Concentration Inequalities, Probabilistic Models, Probability and Random Processes, Data Analysis and Interpretation, Introduction to Fuzzy / Neural Systems, Science of Information, Statistics, & Learning, Advanced Topics in Machine Learning		
	<b>Computer Science</b> Data Structures and Algorithms, Operating Systems, Discrete Structures, Logic for Computer Sci- ence, Computer Vision and Pattern Recognition		
	<b>Biology</b> Introduction to Biology, Introduction to Computational Biology, Medical Image Computing, Biopo- tentials I: Cellular Signals, Medical Sensors		
REFERENCES	<b>Prof. Amit Sethi</b> Electrical Engineering IIT Bombay <a href="#">Webpage</a>   <a href="#">Email</a>	<b>Prof. Timothy Saunders</b> Mechanobiology Lab NUS <a href="#">Webpage</a>   <a href="#">Email</a>	<b>Prof. Edwige Moyroud</b> SLCU University of Cambridge <a href="#">Webpage</a>   <a href="#">Email</a>