

## EDUCATION

- **Indian Institute of Technology, Kanpur** Kanpur, India  
*Master of Technology in Computer Science; GPA: 9.27 (rank : 8/77 )*  
*Academic Excellence Award* Aug. 2018 – Jul 2020
- **Sri Venkateswara University College of Engineering** Tirupathi, India  
*Bachelor of Technology in Mechanical Engineering; GPA: 7.04/10.0*  
*First Class With Distinction* Aug 2013 – Apr 2017

## EXPERIENCE

- **University of California, Santa Barbara** Santa Barbara,US  
*Staff Research Associate* Dec 2021 - Present
- **Geomstats**  
*Maintainer* May 2021 - Present
- **Pennsylvania State University** Pennsylvania,US  
*Remote Research Intern under Prof.Bharath K Sriperumbudur*  
*Working on Kernel Shrinkage Estimators* Jan 2021 - Present
- **Mastercard** Pune, India  
*Software Development Engineer* Aug 2020 - Present

## PUBLICATIONS

- Shrinkage Estimation of Bochner integrals. Saiteja Utpala and Bharat K. Sriperumbudur. In Preparation.
- Biological Shape Analysis with Geometric Statistics and Learning. Saiteja Utpala and Nina Miolane.
- Temperature Scaling for Regression Calibration. Saiteja Utpala and Piyush Rai. Accepted to ICBINB Workshop, NeurIPS 2020

## ACHIEVEMENTS

- Co-winner of Computational Geometry & Topology Challenge 2021
- Selected for Summer School in Machine Learning at Skoltech SMILES among 2000 applicants ( 10% acceptance rate )
- Top 4% contributor for the year 2020 at Mathematics Stack Exchange.
- Achieved 10/10 in Machine Learning and Statistics Courses at IIT Kanpur
- Received the Academic Excellence Award for exceptional performance in 2018-19 academic session at IIT Kanpur
- Secured All India Rank 308 in GATE computer science among 107,893 candidates
- Certificate of Appreciation from HOD for developing standalone android app for management of Technical fest at SVU

## RESEARCH PROJECTS

- Probabilistic calibration of deep regression models [M.tech Thesis](Advisor : Piyush Rai)
  - proposed new general purpose calibration loss function for probabilistic regression models
  - derived analytical expression for updated point estimate and reduced time from  $\mathcal{O}(m)$  to  $\mathcal{O}(1)$

## COURSES AT IIT KANPUR

Machine Learning	Bayesian Machine Learning	Randomized Numerical Linear Algebra	Randomized Algorithms
Stochastic Processes	Parallel Computing	Linear Algebra,Probability and Logic	Complexity Theory

## INDEPENDENT COURSEWORK

Convex Optimization	Topology
Probability Theory	Abstract Algebra
Functional Analysis	Multivariable calculus and Manifolds
Complex Analysis	Differential Equations

## TEACHING ASSISTANT

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- Introduction to Computing (ESC101) (Aug'19 - Nov'19)
- Machine Learning (CS771) (Jan'20 - Apr'20)

## REFERENCES

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- Piyush Rai  
Associate Professor  
P.K. Kelkar Faculty Fellow  
Dept. of Computer Science and Engineering  
Indian Institute of Technology, Kanpur  
Email: piyush@cse.iitk.ac.in
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