

EDUCATION

- **Indian Institute of Technology, Kanpur** Kanpur, India
Master of Technology in Computer Science;
Academic Excellence Award *Aug. 2018 – Jul 2020*
- **Sri Venkateswara University College of Engineering** Tirupathi, India
Bachelor of Technology in Mechanical Engineering;
First Class With Distinction *Aug 2013 – Apr 2017*

EXPERIENCE

- **Wadhvani AI** Apr 2023 - Present
Associate ML Scientist
- **Geomstats** May 2021 - Jan 2023
Lead Engineer and Maintainer
overview: Responsible for complete overhauling of the library both on performance and testing front.
- **University of California, Santa Barbara** Santa Barbara, US
Staff Research Associate *Dec 2021 - Jun 2022*
overview: Conducted Research at intersection of Differential Privacy and Geometric statistics. Currently, one preprint is under review.
- **Mastercard** Pune, India
Software Development Engineer *Aug 2020 - Dec 2021*
overview: Built a new Data visualization tool for fraud detection of financial data (credit, debit card transaction) for some of biggest banks in Spain from scratch using React, Javascript.

PUBLICATIONS

- **Differentially Private Fréchet Mean on the Manifold of Symmetric Positive Definite (SPD) Matrices.**
Saiteja Utpala, Praneeth Vepakomma, Nina Miolane.
Accepted at Transaction of Machine Learning Research (TMLR), 2023. ([arxiv](#)) ([tmlr](#)).
Topic : (Differential Privacy, Geometric Machine Learning).
- **Improved Differentially Private Riemannian Optimization: Fast Sampling and Variance Reduction.**
Saiteja Utpala, Andi Han, Pratik Jawanpuria, Bamdev Mishra.
Accepted at Transaction of Machine Learning Research (TMLR), 2023. ([tmlr](#)).
Topic : (Differential Privacy, Riemannian Optimization, Non-Convex Optimization).
- **Shrinkage Estimation of Higher Order Bochner integrals.**
Saiteja Utpala and Bharat K. Sriperumbudur.
Under Review at Bernoulli. ([arxiv](#)).
Topic : (Learning Theory, Concentration Inequalities, Functional Analysis).
- **Riemannian Optimization using JAX.**
Saiteja Utpala, Andi Han, Pratik Jawanpuria, Bamdev Mishra.
Appeared at 14th International OPT Workshop on Optimization for Machine Learning, ([optml](#)) ([github](#)).
Topic : (Open source library, Riemannian Optimization, Non-Convex Optimization).

ACHIEVEMENTS

- Won 2nd place at Computational Geometry & Topology Challenge 2021.
- 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