Saiteja Utpala

- ✉ saitejautpala@gmail.com
- 🏠 saitejautpala.github.io
- ⓞ SaitejaUtpala

EDUCATION

IIT Kanpur, UP, India   *2018 - 2020*
Masters in Computer Science and Engineering
Academic Excellence Award

SV Univeristy, Tirupathi, India   *2013 - 2017*
Bachelors in Mechanical Engineering
First Class with Distinction

WORK EXPERIENCE

Microsoft Research, India   *Feb 2024 - Now*
Research SDE

Wadhwani AI, Delhi, India   *Apr 2023 - Jan 2024*
Associate ML scientist

Geomstats, Open Source, US   *Dec 2021- Dec 2022*
Maintainer and Lead Engineer

UCSB, California, US   *Dec 2021- Jun 2022*
Staff Research Associate

Mastercard, Pune, India   *Aug 2020 - Dec 2021*
Software Development Engineer

PUBLICATIONS

Preprints

1. **Language Agnostic Code Embeddings.**
   Topics: Code LLMs; Retrieval; Zero Shot Alignment
   Saiteja Utpala, Alex Gu, Pin Yu Chen. *Under Review at ACL ARR.*

Accepted

4. **Locally Differentially Private Document Generation Using Zero Shot Prompting.**
   Saiteja Utpala, Sara Hooker, Pin Yu Chen. *Accepted at EMNLP (Findings), 2023.*
   Topics: LLMs; De-anonymization Attacks; Private Documents.

3. **Shrinkage Estimation of Higher Order Bochner Integrals**.
   Topics: Learning Theory; Concentration Inequalities; Functional Analysis.
   Saiteja Utpala and Bharat K. Sriperumbudur. *Accepted at Bernoulli, 2023.*

2. **Improved Differentialy Private Riemannian Optimization: Fast Sampling and Variance Reduction**.
   Topics: Differential Privacy, Non-Convex Optimization, Riemannian Optimization.
   Saiteja Utpala, Andi Han, Pratik Jawanpuria, Bamdev Mishra. *Accepted at TMLR, 2023.*

1. **Differentially Private Fréchet Mean on the Manifold of SPD Matrices**.
   Topics: Differential Privacy, Geometric Machine Learning.
   Saiteja Utpala, Praneeth Vepakomma, Nina Miolane. *Accepted at TMLR, 2023.*

SOFTWARE

1. **Geomstats: Computations and statistics on manifolds with geometric structures.**
   Maintainer, Jan 2022 - Dec 2022. Contributions Overview
   Stats as of October 2023: ★ 1003, ⑂ 222.

2. **Rieoptax: Riemannian Optimization in JAX.**
   Creator, Oct 2022 - Mar 2023. Contributions Overview
   Stats as of October 2023: ★ 36, ⑂ 3.

Selected Awards and Honors

- Won 2nd place at ICLR 2021 Computational Geometry & Topology Challenge .   *2021*
- Achieved 10/10 in Machine Learning and Statistics Courses at IIT Kanpur   2020
- Received the Academic Excellence Award for exceptional performance in 2018-19 academic session at IIT Kanpur *2019*
- Secured All India Rank 308 in GATE computer science among 107,893 candidates   *2018*