

Parikshit Solunke

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in PariSolunke

🌐 <http://parisolunke.github.io/>

Summary

I'm a Computer Science Ph.D. student at NYU's Visualization Imaging and Data Analysis Research Center (VIDA), under the guidance of Dr. Claudio Silva. I specialize in creating end-to-end visualization tools to facilitate the analysis of complex datasets. My current research centers on applying visualization techniques in the domains of Explainable AI and Urban Analytics.

Employment History

- 2022 – * 📌 **Research Assistant**, New York University.
- Fall 2021 📌 **Teaching Assistant**, University of Illinois at Chicago
- Summer 2021 📌 **Web Development Intern**, Aspire360 (now Allianse), New York, NY

Education

- 2022 – * 📌 **Ph.D. Computer Science, New York University, GPA: 3.94**
Advisor: Dr. Claudio Silva at NYU's Visualization, Imaging and Data Analysis Center
- 2020 – 2022 📌 **M.S. Computer Science, University of Illinois at Chicago, GPA: 3.87**
Honors: Magna Cum Laude
- 2014 – 2018 📌 **B.E. Computer Engineering, University of Pune, Grade: First-Class**

Projects

- **Mountaineer**, <https://github.com/PariSolunke/mountaineer>, (Submission Under review)
 - Developed in collaboration with Capital One, "Mountaineer" is a Topology-Driven Visual Analytics tool designed to facilitate the comparison of Machine Learning Explanations.
 - As the First Author, I held comprehensive responsibilities throughout the project, including:
 - * Conceptualization and design of the user interface
 - * Implementation and development of the tool, applying topological concepts and visualization towards comparing ML Model Explanations
 - * Designing case studies and conducting interviews with industry experts to evaluate the tool.
- **GDPFinder**, <https://github.com/VIDA-NYU/GDPFinder>, (Submission Under review)
 - Estimating neighborhood well-being from high-res satellite imagery using supervised and semi-supervised learning techniques.
 - Fine tuned a ResNet-50 based architecture within the supervised methodology, facilitating predictions of GDP, educational attainment, and population density at a block level in US cities.
 - Designed a visualization tool to interpret and analyse auto-encoder and clustering results in the semi-supervised methodology.

Skills

- Languages 📌 JavaScript, Python, R, SQL
- Methods 📌 Visualization, Data Analytics, Machine Learning, Web Development