Arun Sharma

Contact Information

Computer Science Department
200 Union St SE
Minneapolis, MN 55455

Github: https://github.com/arunshar
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Research Interest

Machine Learning, Graph Mining, Optimization, Database Systems, Distributed Systems, Probability, Statistics, Natural Language Processing, Computer Vision, Parallel Computing

Education

University of Minnesota, Twin Cities — September 2018 - Present
Ph.D. Candidate in Computer Science
Advised by Prof. Shashi Shekhar

University at Buffalo, New York — September 2016 - May 2018
MS in Computer Science

Gautam Buddha University, India — July 2011 - July 2016
BTech and MTech in Computer Science and Engineering

Appointments

University of Minnesota Twin Cities, MN — Jan 2020 - Present
Graduate Research Assistant

University of Minnesota Twin Cities, MN — September 2018 - December 2019
Graduate Teaching Assistant

NASA Ames Research Center Mountain View, CA — May 2017 - August 2017
Graduate Project Assistant

Technical Experience

PyTorch, Tensorflow, Keras, OpenCV, Rapids, CUDA, Spark, Tableau, GeoPandas, ArcGIS

Languages

Python, R, SQL, Java, Scala, HTML/CSS, AWS EC2, SOLR, Android, C/C++

Peer Reviewed Publications

[1] **Analyzing Trajectory Gaps for Possible Rendezvous Regions**
ACM Transactions in Intelligent Systems and Technology, 2022
Arun Sharma and Shashi Shekhar

[2] **Analyzing Trajectory Gaps for Possible Rendezvous: A Summary of Results**
11^{th} *International Conference in Geographic Information Science, 2021 (Oral)*
Arun Sharma, Xun Tang, Jayant Gupta, Majid Farhadloo and Shashi Shekhar

[3] **WebGlobe: A cloud-based framework for interacting with climate data**
International Workshop on Analytics for Big Geospatial Data (SIGSPATIAL) 2018
Arun Sharma, SM Arshad Zaidi, Varun Chandola, Melissa R Dumas, Budhendra L Bhaduri

Other Publications

[1] **Understanding COVID-19 Effects on Mobility: A Community-Engaged Approach**
arXiv preprint (2022)
Arun Sharma, M Farhadloo, Yan Li, Aditya Kulkarni, Jayant Gupta, and Shashi Shekhar

Teaching Experience

CSCI 5715 Spatial Data Science — **Fall 2019**
Graduate Student Instructor with Prof. Shashi Shekhar

CSCI 5708 Advanced Database Systems — **Spring 2019**
Graduate Student Instructor with Prof. Shashi Shekhar

CSCI 4041 Data Structures and Algorithms — **Fall 2018**
Graduate Teaching Assistant with Nathan Taylor