

Raushan Raj

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RESEARCH INTEREST

Data Science, Smart Cities, Machine learning, Time Series Modeling, Deep Learning

EDUCATION

Binghamton University Binghamton, NY
Ph.D.. Computer Science Aug. 2020 – Present

Binghamton University Binghamton, NY
Masters. Computer Science Aug. 2018 – May 2020

Indian Institute of technology, Ropar Punjab, India
Bachelors. Computer Scienc Aug. 2012 – May 2016

PUBLICATIONS

SWIFT: A Non-Emergency Response Prediction System using Sparse Gaussian Conditional Random Fields 2021

- Accepted to Pervasive and Mobile Computing
- **Raushan Raj**, David DeFazio, Anand Seetharam, Arti Ramesh.

Wireless Channel Quality Prediction using Sparse Gaussian Conditional Random Fields 2021

- Accepted to IEEE CCNC 2021
- **Raushan Raj**, Adita Kulkarni, Anand Seetharam, Arti Ramesh.

Ensemble Regression Models for Short-term Prediction of Confirmed COVID-19 Cases July 2020

- Harvard CRCS Workshop on AI for Social Good 2020
- **Raushan Raj**, Anand Seetharam, Arti Ramesh.

SWaP: Probabilistic Graphical and Deep Learning Models for Water Consumption Prediction November 2019

- ACM Buildsys 2019
- **Raushan Raj***, Gissella Bejarano*, Adita Kulkarni*, Anand Seetharam, Arti Ramesh

EXPERIENCE

Research Assistant January 2019 – Present
Binghamton University
Binghamton, NY

- Worked as a Research Assistant under Professor Anand Seetharam for FIND lab

Teaching Assistant August 2019 – May 2021
Binghamton University
Binghamton, NY

- Worked as Teaching Assistant under Professor Zerksis Umrigar of course "Data Structures and Algorithms" , "Architecture of Programming Prospective" and "Programming Languages"

Software Engineer Intern May 2019 – August 2019
Sam Asher Computing Service INC.
Rochester, NY

- Analysed the database and fixed the issue for several report formation, voice call-flow and internal infrastructure.
- Worked closely with clients to establish problem specifications and system designs.

Software Engineer October 2017 – August 2018
Info Edge
Noida, India

- Worked on MVC, Symphony, PHP, Perl, MySql
- Build several apis, online and offline interface and updated database query

Software Engineer June 2016 – February 2017
Happily Unmarried
New Delhi, India

- Worked on MVC, Magento, PHP
- Build several system with notifications
- Implemented several offer and features

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL (Postgres), PHP, Matlab

Developer Tools: Git, Visual Studio, PyCharm, Eclipse

*: Joint First Author