

# Kshitij Srivastava

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## Education

**Indraprastha Institute of Information Technology - Delhi, IN** **July 2018 - July 2020**

*M.Tech (CSE), CGPA 8.33*

*Thesis: Applications of Open Transit Data*

*Awards:*

- Appreciation for Masters Thesis
- Dean's R&D Award - 2019
- AICTE PG Scholarship - 2018-20

*Activities:*

- Student Mentor for 2019-20 - mentored a group of 10 Masters students.
- TA for Discrete Mathematics, Data Warehousing, Introduction to 3D design, Privacy and Security in Online Social Media

**Dr APJ Abdul Kalam Technical University - Lucknow, IN** **August 2013 - June 2017**

*B.Tech (CSE), 74.44%*

*Activities:*

- Placement coordinator for 2015-16
- Head Coordinator for Renaissance committee 2015-16. Responsible for organizing the runway event and managing sponsorships

## Experience

**Research Assistant, Mobility and Optimisation Lab - IIIT Delhi, IN** **Nov 2020 - Current**

- Working on GTFS data creation (static and real-time) for the two transit agencies in Delhi (DIMTS and DTC)
- Responsible for enabling the integration of this data with third party vendors
- Part of the ticketing team conducting e-ticketing trials across Delhi

**Consultant, Mobility and Optimisation Lab - IIIT Delhi, IN** **May 2020 - Oct 2020**

- Worked on a project to lay down policy guidelines for creation and dissemination of Open Data for Public Transport - Chennai for the World Bank

**Graduate Student Researcher, Mobility and Optimisation Lab - IIIT Delhi, IN** **Jan 2019 - July 2020**

- Performed a study to evaluate the effect of the odd even scheme on traffic congestion in Delhi
- Analyzed the impact of bus breakdown on traffic congestion
- Developed a system to detect bus stop points in real-time using spatio-temporal clustering

**Intern, Chartr - IIIT Delhi, IN** **May 2019 - July 2019**

- Worked on developing a multi-modal trip planning algorithm for Delhi based on static data
- Integrated this algorithm with a Django API module to be served to an android app

**Intern, Tata Consultancy Services - Lucknow, IN** **June 2016 - Sept 2016**

- Developed an HTML UI Generator tool
- The tool helped non-programmers to generate desired HTML pages

## Publications

**Srivastava, K.**, Nair, S., Malik A. & Biyani, P. (**Submitted**). Bus Breakdown Detection Using Real-Time Transit Data. In 2021 IEEE ITSC.

Girsa, R., **Srivastava, K.**, Jain, A., & Biyani, P. (2021, January). Demo Abstract: Contactless E-ticketing in Public Transport Buses. In 2021 COMSNETS. [\[Link\]](#)

**Srivastava, K.**, & Biyani, P. (2020, August). Applications of open transit data (Master's thesis, IIT-Delhi). [\[Link\]](#)

## Projects

**Public Information System : Public Transport Data, GTFS** [\[Link\]](#)

- Developed a plug-n-play public information system for commuters
- The information can be displayed on any display using a web browser
- Made the backend and required APIs for the application to work

**Effects of Odd-Even Policy on traffic speeds in Delhi : Policy Evaluation, Open Transit Data, GTFS** [\[Link\]](#)

- Studied the impact of the odd-even road rationing policy on traffic conditions in Delhi
- The study was performed using open transit data
- Observed a consistent decrement of 15-20% in travel times owing to the policy
- Work covered by major national newspapers)

**Assessing the impact of bus breakdown on fuel costs : Machine Learning, Clustering**

- Collected data for bus breakdowns from bus depot
- Using the open GTFS data of buses, categorized breakdown cases
- Used spatio-temporal DB-SCAN to detect these breakdowns in real-time
- Employed a fuel consumption model to estimate the cost of the extra fuel consumed

## Skills

**Programming Languages** : Python, Shell scripting

**Frameworks** : Django, Flask, Pandas

**Tools** : Jupyter, Git

## Languages

**Hindi** : Native

**English** : Fluent, TOEFL - 113/120