

# MUKUL KUMAR

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## EXPERIENCE

### Research Intern

#### Wadhvani AI

May 2020 – July 2020 Mumbai, Maharashtra

Guide: Mihir Kulkarni (Research Fellow, Wadhvani AI)

- AI for social good. Used machine learning to help address problem of non-adherence in TB healthcare.

### Summer Intern

#### Trivedi Centre for Political Data, Ashoka University

June 2019 – July 2019 Haryana, India

Guide: Mohit Kumar (Data Science and GIS Engineer, TCPD)

- Worked on extracting data from elections documents, cleaning them to create a dataset of legislators.
- Using NLP to generate summaries of election judgements.

## EDUCATION

### B.Tech, Computer Science and Social Sciences

#### IIIT Delhi

July 2017 – May 2021 (expected)

CGPA : 8.17 (after 6th semester)

### Senior Secondary Education (Class XII)

#### Rajkiya Pratibha Vikas Vidyalaya, Sector 10 Dwarka, New Delhi

June 2015 – May 2016

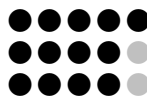
Percentage: 95.00%

## SKILLS

Data Science, Machine Learning

Python, R

SQL, Linux, Numpy, Pandas, Pytorch



## RELEVANT COURSES

- Deep Learning
- Machine Learning
- Natural Language Processing
- Research Methods in Social Sciences
- Econometrics
- Spatial Statistics and Spatial Econometrics
- Multimedia Computing and Applications

## PROJECTS

### Non-adherence in TB

Guide: Mihir Kulkarni, Wadhvani AI

This project was done as part of internship at Wadhvani AI. In India, 2.3 million people get affected by TB every year. We developed machine learning models(XGBoost) using patient covariates and calling history to identify patients who were likely to drop-off their medical regimen. These patients can be given extra care to help save their lives.

### Twitter Archive and Analysis Platform

Guide : Prof. Ralph Schroeder, University of Oxford, Oxford Internet Institute

Developed a tool/website to scrape/filter/analyse and compare tweets of biggest political leaders of India for the analysis of 2019 General Elections of India.

### FashionGuru: Contextualized Outfit

#### Recommender System

Guide : Prof. Rajiv Ratn Shah, IIIT Delhi

The system incorporates User's context (skin-tone, age, gender, preference), Temporal context (weather, time-of-day) and Occasion with the appropriate clothing match to provide contextualized outfit recommendations . Fashion knowledge extraction from scraped Instagram pictures. Tech Used: Web Scraping, Computer Vision, Machine Learning, Deep Learning, Retrieval.

### Understanding Clouds from satellite images

Guide: Jainendra Shukla, IIIT Delhi

Detection of cloud patterns using Deep learning. We used U-net with Resnet-34 and MaskRCNN to segment various shapes of clouds which could further help researchers to understand climate change.

## HONORS & AWARDS

- Awarded 1 Lakh scholarship by Ministry of HRD, Govt of India for being in top 200 rankers in CBSE.
- Indira Award by Govt. of NCT of Delhi for scoring perfect score in secondary examinations.