Mukul Kumar

mukulnotes.me

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EDUCATION

- **IIIT Delhi**   Delhi, India
  B.Tech in Computer Science and Social Sciences; CGPA: 8.25 (till 6th sem)   *Aug. 2017 – May. 2021 (expected)*

- **Rajkiya Pratibha Vikas Vidyalaya**   Dwarka, New Delhi
  Senior secondary education, Percentage: 95%   *April 2015 – March. 2016*

EXPERIENCE

- **Wadhwani AI**   Mumbai, Maharashtra
  Research Intern   *May 2020 - Present*
  - **AI for Social Good**: Using AI to address adherence problem in Tuberculosis care.
  - : Working with a diverse team of healthcare experts and AI Researchers to understand the issues related to TB in India and address those using AI solutions.
  - : Working on predicting a patient's drop-off rate using their covariates(age, gender, income etc.) and 99DOTS call history.

- **Trivedi Centre for Political Data**   NCR, India
  Summer Intern   *June 2019 - July 2019*
  - **Data Scraping**: Worked on extracting data from elections documents, cleaning them to create a dataset of legislators.
  - **NLP**: Used NLP to extract summaries of long election related judgements.

PROJECTS

- **Twitter Archive and Analysis Platform**
  *Guide: **Prof. Ralph Schroeder, University of Oxford**, Oxford Internet Institute and **Prof. Anupam, IIM Kozhikode***
  - : 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**
  Course: Multimedia Computing and Applications
  - : 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.

- **Generating Facial expressions using Conditional-GAN**
  Course: Deep Learning
  - : 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 .

- **Acadbot: A chatbot for academic queries**
  Course: Natural Language Processing
  - : 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 .

- **Understanding Clouds from satellite images**
  Course: Machine Learning
  - : 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.

PROGRAMMING SKILLS

- **Languages**: Python, R, Java   **Frameworks and Tools**: Pytorch, sklearn, Numpy, Pandas, SQL

Relevant Institute Courses

- Natural Language Processing

- Deep Learning

- Machine Learning

- Multimedia Computing and Applications

- Econometrics

Relevant Online Courses

- Neural Networks and Deep Learning (deeplearning.ai)

- Deep Learning with Pytorch (IBM)

- Structuring Machine Learning Projects (deeplearning.ai)

- Machine Learning (Stanford)

Position of Responsibility

- **Member, Student Council**

  Represented my batch in the student council of the college. Student Council IIIT Delhi is the apex student body of IIIT Delhi representing all student-related matters (academic and extra-curricular) in IIIT Delhi.

- **Student Coordinator, Induction**

  Responsible for finalizing schedule, budget, inviting speakers for the programme and co-ordinated with the Director IIITD and faculty co-ordinators. Managed 30 volunteers for the programme. Part of the 4-member committee responsible for the successful execution of the programme to help 400 B.Tech students get comfortable with college environment.

- **Member, Placement Committee**

  Worked as a member of placement committee, to help conducting screening tests, manage interviews for placements and internship.