Mayank Saxena

mayank26saxena.github.io | mayank26saxena@gmail.com | github.com/mayank26saxena |+91-9910002161

EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY (FORMERLY DCE)

B.Tech in Mathematics and Computing

Expected May 2018 | New Delhi, India CGPA - 7.85 (Up to 7th semester)

SKILLS

TECHNICAL SKILLS

Programming Languages:

- Python C C++ Java MATLAB
- MySQL Javascript R LaTEX Frameworks:
- TensorFlow Keras OpenCV
- Numpy Pandas Android SDK

COURSEWORK

- Algorithms Data Structures
- Operating Systems Computer Vision
- Discrete Mathematics Probability
- Linear Algebra Optimization

OTHER COURSES

- Deep Learning by deeplearning.ai
- Machine Learning by Andrew NG
- Algorithms by Stanford University

AWARDS

- Airvolution 2017 Shortlisted for on site finals in Kuala Lumpur, Malaysia, as one of 20 teams all over the world.

 Organized by Air Asia.
- •MHacks 8 Shortlisted and participated in international hackathon conducted in Detroit by University of Michigan.
- •TechnoVision 2017 Recieved best research presentation award for research on Prediction of Like Count of YouTube video amongst 20+ presentations.
- Digital India Hackathon 2016 Finished third amongst 9000 entries. Developed a Facebook Messenger Bot: Rescue Bot India.
- IndiaHacks 2016 An international hackathon organized by HackerEarth. Ranked amongst top 20 submissions in two tracks (FinTech and e-Commerce).
- HackNSIT 2016 Developed 'Foodify' and won 2nd Runners up prizes.

EXPERIENCE

IBM INDIA RESEARCH LABORATORY | RESEARCH INTERN

September 2017 - January 2018 | New Delhi, India

- Collected video data of trailers of all Bollywood Movies released between 2008-2017 and analyzed existence of gender stereotyping in them. The work was published on several leading websites.
- Worked under the guidance of Dr. Sameep Mehta and Nishtha Madaan.

CARNEGIE MELLON UNIVERSITY | RI SUMMER SCHOLAR

June 2017 - August 2017 | Pittsburgh, PA

- Developed a real time prediction model for behavior actions in RoboTutor using affective state estimation. RoboTutor is a finalist for the 15M \$ Global Learning XPrize Competition.
- Worked under the supervision of Dr. Jack Mostow.

CUBE26 | Software Developer Intern

December 2015 - March 2016 | New Delhi, India

- Developed widget for frequent contacts as stock application for Karbonn Android Phones. All code was reviewed and pushed for production.
- Application and widget for finding out balance for prepaid connections.

PUBLICATIONS

- [1] M. Saxena, R. Pillai, J. Mostow, 'Relating Children's Automatically Detected Facial Expressions to their Behavior in RoboTutor', AAAI 2018
- [2] N. Madaan, S. Mehta, , **M. Saxena**, A. Aggarwal, T. S Agrawaal, V. Malhotra, 'Analyzing Gender Stereotyping in Bollywood Movies', *FAT** 2018
- [3] N. Madaan, S. Mehta, **M. Saxena**, A. Aggarwal, T. S Agrawaal, V. Malhotra, 'Bollywood Movie Corpus for Text, Images and Videos', *ArXiv*
- [4] M. Saxena, R. Pillai, J. Mostow, 'Student Behavior Analysis using Affective State Estimation in RoboTutor', *CMU RI Summer Scholars Journal*, 2017

PROJECTS

YOUTUBE LIKE COUNT PREDICTOR

Detroit by University of Michigan.

• TechnoVision 2017 - Recieved best research presentation award for research presentation

DETECTING INFLUENTIAL NODES IN A GRAPH

Implemented my own algorithm - Extended Neighbourhood Coreness Centrality. Results were comparable and better in some cases to Pagerank, Degree centrality and k-core centrality algorithms.

OFFLOW

An application for data transfer between two Android devices using ultrasound waves. Authentication was accomplished using a time based OTP.

FOODIFY

Developed an Android App which processes image of a food item, recognizes the item, retrieves its nutritional content and also suggests its recipe.