

Udit Arora

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EDUCATION

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY UNIVERSITY OF DELHI

B.E. IN COMPUTER ENGINEERING
May 2016 | Delhi, India
CGPA: 8.04/10

AWARDS

MERIT SCHOLARSHIP

- For academic performance in
3rd & 4th year of undergraduate

INTL. ASSESSMENT FOR INDIAN SCHOOLS BY UNSW | 2007

- Highest marks in CS in Delhi

MATHS MIND | 2008

- Ranked fourth among 300+
participants

INTERESTS

COMPETITIVE CODING

CODECHEF FEB15 CHALLENGE

- Highest score in India for
challenge problem

SPOJ

- Solved 200+ problems

ACM ICPC 2015

- Chennai regional finalist, in
top 5% among 1500+ teams

MOOCS

Introduction to Linux

Algorithms: Design & Analysis

Machine Learning

Deeplearning.ai Specialization

Machine Learning Er. Nanodegree

OTHER

PRESIDENT | Finance and
Economics Society, NSIT
2014-15

SKILLS

Programming Languages:

Python • C • C++ • C# • Java

Web:

HTML • CSS • JS • jQuery

ML/DL Frameworks:

scikit-learn • PyTorch • Keras

Other:

MySQL • Git

EXPERIENCE

IIIT DELHI | RESEARCH ASSOCIATE, LCS2 (August'18 - Present)

- User, content and action level detection of blackmarket-driven collusion for gaining inorganic appraisals on Twitter using different embedding methods.
- Multimodal text summarization for educational content using deep learning.

MICROSOFT INDIA (R&D) | SOFTWARE ENGINEER (June'16 - July'18)

- Developed innovative ways of sharing Excel content and integration of Excel with a messaging app. Filed a **patent with the USPTO** for the same.
- Worked on a time-driven release of Kaizala UWP. Developed the Chat Page and workflows like heterogeneous message views and custom cards.
- Developed the Cloud Call Analytics feature for Skype for Business Server 2019, building a secure pipeline to upload call telemetry data to the cloud.
- Winner of the OneWeek 2017 Hackathon in Rajesh Jha's executive challenge - developed a utility to scan and analyze receipts in Excel.

PROJECTS UNDERTAKEN

AUTOMATED CRICKET UMPIRE git.io/cricketbtp

A computer vision project to make cricket umpiring decisions like Wide/No Ball and LBW from a single smartphone camera feed using a ball tracking mechanism - used SVM for ball detection and min. enclosing circle to track the ball's coordinates.

GUIDANCE SYSTEM FOR VISUALLY IMPAIRED goo.gl/adZ4Hf

A computer vision project to assist the visually impaired by using contour detection and Haar Classifier on a Raspberry Pi to detect zebra crossings and crosswalks.

OS ALGORITHM VISUALIZATION APP git.io/osava

A desktop/android app for visualizing various operating system algorithms (CPU Scheduling, Page Replacement, etc.) - developed using Kivy framework in Python.

CHAIN REACTION SINGLE PLAYER goo.gl/FPLR3j

A variant of Chain Reaction game for Android with an option to play against AI CPU bots, and integration of Google Play Game Services - 8500+ downloads. Featured as Game of the Week by Firstpost (<https://goo.gl/wKpWcB>).

NSIT PERCENTAGE CALCULATOR goo.gl/cH7W47

A web-based tool to enable NSIT students to calculate and analyze their overall percentage - used by over 20,000 students from NSIT.

PUBLICATIONS

Accepted/Published:

- **Arora U.**, Paka W., Chakraborty T. (2019), Multitask Learning for Blackmarket Tweet Detection. IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), in press.
- Chakraborty P.*, **Arora U.*** et al. (2019), OSAVA: An Android App for Teaching a Course on Operating Systems. JEET, doi:10.16920/jeet/2019/v32i4/145517
- Yadav, S., Chakraborty, P., Mittal, P. and **Arora, U.** (2018), Children aged 6-24 months like to watch YouTube videos but could not learn anything from them. Acta Paediatrica, doi:10.1111/apa.14291

Under Review:

- **Arora U.** et al. (2019), Analyzing & Detecting Users Involved in Blackmarket Retweeting Activities.
- Dutta H., **Arora U.**, Chakraborty T. (2019), CoBeDB: A database of blackmarket-driven collusive entities in online media.