Udit Arora

udita@iiitd.ac.in | uditarora.com | LinkedIn: uditarora09 | GitHub: uditarora

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

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
Convolutional Neural Networks for Visual Recognition

OTHER

President | Finance and Economics Society, NSIT 2014-15

SKILLS

Programming Languages:
C • C++ • C# • Java • Python • PHP
Web:
HTML • CSS • JS • jQuery
ML/DL Frameworks:
scikit-learn • TensorFlow • Keras
Other:
MySQL • Git

EXPERIENCE

IIIT DELHI | Research Associate (August'18 - Present)
- Solving research problems related to fraudulent behavior on social media platforms using NLP and ML - at LCS2 (**http://lcs2.iiitd.edu.in/**).
- User and content 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)
- Delivered impactful work for Excel, Kaizala and Skype for Business Server.
- 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.

ASPIRING APPS | Software Intern (March'14 - July'14)
- Worked on key enhancements for SocialCalc spreadsheets, feature additions like Dropbox integration and an in-app purchase framework for Android/iOS.
- Developed a platform for distribution of Web-Apps using Python-Tornado.

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.

NUCLEAR CHAIN REACTION 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 - 7000+ downloads.

NSIT PERCENTAGE CALCULATOR goo.gl/cH7W47
A web-based tool to enable NSIT students to calculate and analyze their overall percentage - used by over 10000 students from NSIT.

PUBLICATIONS

Published:
- 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 Paediatr. . **doi:10.1111/apa.14291**

Under Review:
- **Arora U.** , Dutta H., Joshi B., Chetan A., Chakraborty T. (2018), Analyzing and Detecting Collusive Users Involved in Blackmarket Retweeting Activities.
- Chakraborty P., **Arora U.** , Mukhija N. et al. (2017), An Android app to visualize and teach algorithms used in operating systems.