Divyanshu Talwar

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WORK EXPERIENCE

Goldman Sachs

Technology Risk Analyst   May 2019 - Present

    Engineering solutions to effectively manage the firm's technological risk.

IIIT-Delhi

Teaching Assistant, Probability and Statistics   Jan 2019 - May 2019

    Held weekly tutorials and office hours, helped prepare and grade assignments and exams.

Undergraduate Research Assistant   Jan 2018 - May 2019
Advisor: Dr. Angshul Majumdar

    Mathematically modeled collaborative filtering and bio-informatics problems.

Undergraduate Research Assistant   Dec 2017 - Nov 2018
Advisor: Dr. Saket Anand

    Worked on learning disentangled representations along with exploring its applications in zero/few-shot learning, transfer learning, and targetted data-augmentation.

EDUCATION

IIIT-Delhi   New Delhi, India
Bachelor of Technology in Computer Science and Engineering   CGPA: 9.84/10   May 2019
- Ranked among the top 1% of the institute.
- Dean's List for academic excellence awarded in all years.

Amity International School, Mayur Vihar   New Delhi, India
All-India Senior School Certificate Examination (CBSE), Class XII   PCT: 95.6%   Apr 2015
All-India Secondary School Examination (CBSE), Class X   CGPA: 10/10   Apr 2013

PUBLICATIONS

AutoImpute: Autoencoder based imputation of single-cell RNA-seq data   Nature - Scientific Reports

Divyanshu Talwar, Aanchal Mongia, Debarka Sengupta, and Angshul Majumdar.   Vol. 8, 16329 (2018)

RELEVANT COURSEWORK

Security Analysis	Portfolio Management	Macroeconomics	Algorithm Design	Theory of Computation
Machine Learning	GPU Computing	Linear Algebra	Probability & Statistics	Virtual Reality

SKILLS

Programming Languages :   Python, C, C++, Java, Bash, C#, MATLAB, JavaScript.

Frameworks :   PyTorch, Tensorflow, CUDA, OpenGL, Kafka, KSQL, Node.js, Unity, Git, LaTeX.

POSITIONS OF RESPONSIBILITY

Representative	Represented CSE 2015 batch as a part of Student Senate, IIIT-Delhi.	Apr 2018 - May 2019
Coach	Guided Team Victorious Secret through their RGSoC journey.	Jul 2017 - Sept 2017
Instructor	Organized competitive programming workshops for high school students.	Jul 2016
Volunteer	Conducted mathematics and science tutorials for economically challenged junior-high school students at Summer School, IIIT-Delhi.	May 2016 - Jun 2016

PROJECTS

ShakaLakaBoomBoom	Maneuver 3D models generated from 2D sketches in a scene using hand gestures.	2019
Parallel DFS	CUDA implementation of the DFS algorithm offering a $1.75\times$ speedup.	2018
Mapbots	Mapping rooms using an ultrasonic sensor ring mounted on an autonomous bot.	2016

ACHIEVEMENTS

Dean's List for academic excellence.	Sept 2016, 2017, 2018
First runner up at Code-Off: All-India Hackathon with over 350 participating teams.	Oct 2017
Teaching excellence award at Summer School, IIIT-Delhi.	Jun 2016
Country topper at the Third Amity International Olympiad for Physics.	May 2014

INTERESTS AND HOBBIES

Puzzles, Tabla and Gardening - especially bonsai making.