

Divyanshu Talwar

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WORK EXPERIENCE

Goldman Sachs

Associate, Resilience Engineering Jan 2022 - Present
Engineering solutions to boost the firm's operational resilience.

Analyst, Technology Risk May 2019 - Dec 2021
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 Researcher Jan 2018 - May 2019

Advisor: [Dr. Angshul Majumdar](#)

Mathematically modeled collaborative filtering and bio-informatics problems.

Undergraduate Researcher

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 Aug 2015 - May 2019
Ranked among the top 1% of the institute.

PUBLICATIONS

[Binary Matrix Completion on Graphs: Application to Collaborative Filtering](#) [Digital Signal Processing](#)
Divyanshu Talwar, Aanchal Mongia, Emilie Chouzenoux, and Angshul Majumdar. Vol. 122, 103350 (2022)

[AutoImpute: Autoencoder based imputation of single-cell RNA-seq data](#) [Scientific Reports, Nature](#)
Divyanshu Talwar, Aanchal Mongia, Debarka Sengupta, and Angshul Majumdar. Vol. 8, 16329 (2018)

PROJECTS

[ShakaLakaBoomBoom](#) Hand-gesture maneuvering of 3D models generated from inflated 2D sketches. 2019
[Parallel DFS](#) CUDA C++ implementation of the parallel DFS algorithm offering a $1.75\times$ speedup. 2018
[Mapbots](#) Mapping rooms using an ultrasonic sensor ring mounted on an autonomous bot. 2016

SKILLS

Programming Languages: Python, C, C++, Java, Bash, SQL, C#, MATLAB, JavaScript.
Frameworks and Tools : Kafka, ksqldb, PyTorch, Tensorflow, CUDA, OpenGL, Unity, Git, \LaTeX .

ACHIEVEMENTS

Dean's List for academic excellence awarded in all years at IIIT-Delhi. 2016 - 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

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

RELEVANT COURSEWORK

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

INTERESTS AND HOBBIES

Puzzles, Tabla and Gardening - especially bonsai making.