Divyanshu Talwar

EMAIL: divyanshu15028@iiitd.ac.in | Website: divyanshu-talwar.github.io

Work Experience	
Goldman Sachs Associate, Site Reliability Engineering Engineering applications to catalog, test, and auto-discover operational dependencies, enhancing the firm's observability and resilience. Facilitating effective scaling & planning, incident response & blast-radius analysis, risk management, and thorough recovery plan creation for business disruption scenarios.	Jan 2022 - Present
Analyst, Technology Risk Engineered solutions for fast and reliable security incident identification and triage.	May 2019 - Dec 2021
Indraprastha Institute of Information Technology (IIIT), Delhi Teaching Assistant, Probability and Statistics Held weekly tutorials and office hours, helped prepare and grade assignments and exams.	Jan 2019 - May 2019
Undergraduate Researcher Developed novel solutions for and using sparse-matrix imputation, achieving state-of-the-art results. Advisor: Dr. Angshul Majumdar	Jan 2018 - May 2019
Undergraduate Researcher Worked on non-adversarial generative solutions, using disentangled latent representations, for facial images. Advisor: Dr. Saket Anand	Dec 2017 - Nov 2018
EDUCATION	

Ranked among the top 1% of the institute.

Others:

IIIT Delhi

SKILLS	
Languages & Libraries:	Python, C++, Java, Bash, C, Go, C#, MATLAB, PyTorch, CUDA, OpenGL, Unity.
DevOps & Tools:	Docker Kubernetes Terraform AWS BigQuery SQL MongoDB FlasticSearch Kafka ksqlDB

Technical Architecture, Automation, Optimization, Code Reviews, Incident Postmortems.

PUBLICATIONS

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

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

RELEVANT COURSEWORK

Bachelor of Technology in Computer Science and Engineering

Machine Learning Theory of Computation	GPU Computing Linear Algebra	Computer Graphics Probability & Statistics	Algorithm Design Operating Systems	Virtual Reality Portfolio Manag	gement
SELECTED PROJECT	S				
ShakaLakaBoomBoom Parallel DFS Mapbots	CUDA C++ impleme	n with inflated 2D sketche entation of the parallel DF ing an ultrasonic sensor r	S algorithm offering a	a 1.75× speedup.	2019 2018 2016

AWARDS AND RECOGNITION

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
Country topper at the Third Amity International Olympiad for Physics.	May 2014

VOLUNTEER EXPERIENCE

Mentored underserved college students, assisting them with interview preparations.	Sept 2022 - Mar 2023
Representative for the computer science class at Student Senate, IIIT Delhi.	Apr 2018 - May 2019
Coach to Team Victorious Secret, providing guidance throughout their RGSoC journey.	Jul 2017 - Sept 2017
Facilitated mathematics and science tutorials for underserved school students.	May 2016 - Jun 2016

INTERESTS AND HOBBIES

Puzzles, Tabla, Bonsai care and Yoga.

New Delhi, India

Aug 2015 - May 2019

CGPA: 9.84/10