Shaan Ul Haque

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PhD Student, Department of Industrial and Systems Engineering , Georgia Institute of Technology, Atlanta
Research Interests: Reinforcement Learning, Stochastic Approximation, Statistical Learning, Machine Learning

EDUCATION

PhD in Machine Learning, Industrial and Systems Engineering, Georgia Tech, CGPA: 4/4   **2022 — present**
– *Advisor: Prof. Siva Theja Maguluri*

Bachelor of Technology, Electrical Engineering, IIT Bombay, CPI: 9.52/10   **2018 — 2022**
– *Minor, Computer Science and Engineering,* IIT Bombay
– *Honours, Electrical Engineering,* IIT Bombay

Intermediate/+2, Science, Delhi Public School, Ranchi, Percentage: 92.7%   **2017 — 2018**

Matriculation, Delhi Public School, Ranchi, CGPA: 10/10   **2017 — 2018**

SCHOLASTIC ACHIEVEMENTS

- Recipient of **Stewart Topper Fellowship Award** from ISyE department, Georgia Tech
- Recipient of **ISYE Stewart M. Fell Stipend** from ISyE department, Georgia Tech
- Awarded **Undergraduate Research Award-01** (URA-01) by IIT Bombay for research on **RADAR Imaging**
- Secured **All India Rank 111** in **JEE Advanced, 2018** among selected 172,000 aspirants
- Bagged a rank of **481** in **JEE Mains, 2018** among 1.2 million students across the whole country
- Stood among the **state wise top 1%** in **National Standard Examination in Chemistry (NSEC)**
- Recipient of fellowship by the **Indian Institute Of Science (IISc), Bangalore** for clearing **Kishore Vagyanik Protsahan Yojana (KVPY)**
- Rewarded scholarship by Government of India for clearing **NTSE (National Talent Search Examination)**

PUBLICATIONS

- **SU Haque**, S. Khodadadian, ST Maguluri, "Tight Finite Time Bounds of Two-Time-Scale Linear Stochastic Approximation with Markovian Noise", submitted in AISTATS 2024
- **SU Haque**, A. Rajwade, K. Gurumoorthy,"Joint Probability Estimation Using Tensor Decomposition and Dictionaries" in EUSIPCO 2022
- **SU Haque**, S. Chandak, F. Chiariotti, D. Gunduz, P. Popovski,"Learning to Speak on Behalf of a Group: Medium Access Control for Sending a Shared Message" in IEEE communication Letters 2022
- S. Sharma, A. Girish, N. Rakhashia, V. M. Gadre, **SU Haque**, A. Ansari, R.B. Pachori, P. Radhakrishna, P. Sahay,"Joint Probability Estimation Using Tensor Decomposition and Dictionaries" in National Conference on Communications (NCC) 2022

Key Courses

- **Computer Science**- Design and Analysis of Algorithms, Machine Learning: Theory and Methods, Mathematical Foundations of Machine Learning, Advanced Machine Learning, Foundations of Intelligent and Learning Agents, Advanced Algorithms for Image Processing
- **Optimisation**- Linear Programming, First order methods in optimisation for Machine Learning
- **Mathematics and Statistics**- Theoretical Statistics, Real Analysis, Introduction to Stochastic Optimisation, Advanced Probability and Random Processes

Technical Skills

- **Programming Languages and Libraries**- C++, Python, Tensorflow, NumPy, PuLP, MATLAB
- **Softwares**- GNUPlot, Keil μVision, Scilab, LaTeX, SolidWorks, NgSpice, Quartus, Eagle, AutoCAD, XCircuit

Position of responsibilities

- **Activity Associate | Green Campus, National Service Scheme(NSS), IITB**   [Apr '19 - Apr '20]

  Mentored 100+ volunteers with a team of 7 members for the rejuvenation of ecosystem of the institute

- **Organizing Assistant | AI4OPT, Georgia Tech**   [Aug '23 - Dec '23]

  Assited in organizing 15+ weekly seminar series for AI4OPT