Education

Indian Institute of Science, Bangalore

M.Tech. (Research) in Computer Science

2021 - 2023

- CGPA: 9.5/10
- Courses: Computational Methods of Optimization, Stochastic Models and Applications, Foundations of Data Science, Reinforcement Learning, Algorithms under Uncertainty

Birla Institute of Technology and Science, Pilani

B.E. (HONS.) IN ELECTRICAL AND ELECTRONICS

2014 - 2018

- CGPA: 8.4/10
- Courses: Neural Networks and Fuzzy Logic, Machine Learning, Discrete Structures for Computer Science, Object-oriented programming, Operating Systems, Signals and Systems, Communication Systems, Control Systems, Computer Programming

Experience _

Indian Institute of Science

Bangalore, India

RESEARCH STUDENT August 2021 - Current

- Broadly working on problems related to Online Learning, Optimization, and Causal Inference.
- Teaching assistant for the graduate course on Design and Analysis of Algorithms.

Goldman Sachs Bangalore, India

BIG DATA ENGINEER

June 2018 - June 2021

- Built Data Pipelines and Analytics as a part of the Surveillance Engineering team to detect trade anomalies and fraudulent activities.
- Tech Stack Spark, HDFS, Hive, Presto, Scala, Python

Indian Institute of Science

Banaalore, India

RESEARCH INTERN

Jan. 2018 - June 2018

- Worked at Robert Bosch Center for Cyber-Physical Systems on a Computer Vision project to build a real-time traffic monitoring system
 for videos with very high occlusion.
- · Worked on the problem of Multiple Object Tracking using Kalman Filter and deep image features. (Sample Result)

Samsung Research Institute

Noida, India

SUMMER INTERN

May. 2017 - Jul. 2017

 Designed and implemented a model for extracting featured images from a video using various image processing and machine learning techniques.

Publications and Technical Presentations

- Ayush Sawarni, Soumyabrata Pal, Siddharth Barman "Nash Regret Bounds for Linear Bandits" (Under Submission)
- Ayush Sawarni, Rahul Madhavan, Gaurav Sinha, Siddharth Barman "Learning Good Interventions in Causal Graphs via Covering", UAI 2023. (Paper)
- Siddharth Barman, Arindam Khan, Arnab Maiti, Ayush Sawarni (Alphabetical Order) "Fairness and Welfare Quantification for Regret in Multi-Armed Bandits," AAAI 2023. (Paper)
- Raghu Krishnapuram, Ayush Sawarni, Nishal Pereira, Jishnu Jayakumar, Praneet Singh, Prajwal Rao, Abhay Sharma, Soma Biswas, "Video analytics for traffic modelling", CyPhySS 2018, IISc Bangalore. (Poster)

Achievements

- Reliance Foundation Scholar, Selected as one of the 40 postgraduate students in India to receive the Reliance Foundation Scholarship.
- Graduate Aptitude Test in Engineering (GATE), Secured All India Rank 3 with a score of 1000/1000.
- 2018 India EU ICT Hackathon Winner, Implemented a smart city solution to optimize the power consumption of streetlights on Indian roads depending on traffic flow and density.

IISc, Bangalore

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Extracurricular Activities

- **Teaching Volunteer** for National Service Scheme, BITS Pilani chapter from Aug 2014 Jul 2015. Taught computer applications to underprivileged women and kids in Pilani and nearby villages.
- Secretary, Embryo Club (2016 2017). Supervised online and on-campus talks by speakers like Sir Anthony J Leggett (Nobel Laureate in Physics) and Dr. Jayant Narlikar (Padma Vibhushan).
- Music An active member of Rhythmica, the official music club at IISc.