

# SOUMADITYA CHAUDHURI

International Institute of Information Technology, Bangalore

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## Education

### IIIT Bangalore

*MS by Research in Network, Communication and Signal Processing*

**Aug. 2022 – till date**

*3.6/4*

### VIT Chennai

*BTech in Electronics and Communications Engineering*

**July 2018 – May 2022**

*9.17/10*

## Experience

### International Institute of Information Technology, Bangalore

*Research Scholar*

**Aug. 2022– till date**

*Bangalore, Karnataka*

- Working on localization under Integrated Sensing and Communication (ISAC)
- Developed a beamformer for Passive RADAR (PR) when multiple Reconfigurable Intelligent Surfaces (RISs) are simultaneously on

## Projects

### Massive MIMO base station design to support spatial modulation | *Ansys HFSS*

**Jan. 2021 – May 2021**

- Simulated spatial modulation using an array of antennas

### Musical Note Identification using digital signal processing | *MATLAB*

**Aug. 2020 – Dec. 2020**

- Created a project where new tunes can be generated from existing sound using digital signal processing

## Technical Skills

- MATLAB
- LATEX

## Relevant Coursework

- Mobile Computing
- Math for ML
- Wireless Communication
- Optimization

## Extracurricular

### COMSNETS

*Volunteer*

**Jan. 2023**

*Bangalore*

- Managed the registration desk at COMSNETS conference in 2023

### IEEE Signal Processing Society

*Volunteer*

**March 2019**

*VIT Chennai*

- Won the best student volunteer award in VIT Chennai

### Inter-school Math competition

*Participant*

**Feb. 2018**

*PSBS, Bangalore*

- Won the first place in an inter-school Math competition