

## AREAS OF INTEREST

- Computer Networks
- Wireless Communication
- Machine Learning
- Digital Signal Processing

## SCHOLASTIC ACHIEVEMENTS

- **99.68** percentile in **GATE** in Electronics and Communication among **1,52,318** candidates (2016)
- Secured an all India rank of **7578** in **AIEEE** (2012)
- **3<sup>rd</sup>** runner up in **national level** abacus competition by SIP-INDIA (2008)

## MAJOR PROJECTS AND SEMINAR

- **M.Tech Project: OpenFlow Router with eBPF Forwarding Engine** (May'19 - Present)  
Guide: Prof. D. Manjunath, IIT Bombay
  - Using POX controller to communicate with OpenVSwitch via **OpenFlow** protocol.
  - Using **eBPF in kernel space** as backend for fast packet forwarding, and less number of packet copies.
  - Porting the entire system to a **SPARC processor** on FPGA, as a prototype for IoT deployment
- **Seminar: Open Source Router** (Jul'18 - Dec'18)  
Guide: Prof. D. Manjunath, IIT Bombay
  - **Studied** Click Modular Router, Extended Berkely Packet Filter, Network Processor Architecture and Software Defined Networking (SDN) and **implemented** a basic version of Click modular router, to work as an Ethernet switch.

## WORK EXPERIENCE

- **System Administrator** | *Electrical Department, IIT Bombay* (Jul'17 - Present)
  - **Development** of EE department website, Dashboard, and maintaining numerous portals.
  - **Automation** of admission process through web based services and **Bash Scripts**.
- **Teaching Assistant: Communication Networks** | *IIT Bombay, IIT Dharwad* (Jan'19 - Apr'19)
  - **Created** and evaluated **7** lab experiments, based on **socket programming**.
  - Work also involved **traveling**, setting up lab experiments and evaluations at **IIT Dharwad**.
- **Software Developer** | *Nykaa* (Jun'16 - Jul'17)
  - Involved in **development** of product listing, search, and checkout domains of the website.
  - Closely worked with marketing team to strategically place tracking tags at numerous locations of the website.

## KEY COURSE PROJECTS

- Simulation of **Cellular system** in MATLAB | *Wireless and Mobile Communications* (Jan'18 - Apr'18)
- Different Scheduling Schemes in **LTE** | *Wireless and Mobile Communications* (Jan'18 - Apr'18)
- House sale status **classification** | *Introduction to Machine Learning* (Jan'18 - Apr'18)
- Implementation of **DBSCAN** Algorithm from scratch | *Introduction to Machine Learning* (Jan'18 - Apr'18)
- Basic **Image Editor** | *Image Processing* (Jul'18 - Nov'18)
- Image **Dehazing** through Depth estimation | *Image Processing* (Jul'18 - Nov'18)

## TECHNICAL SKILLS

**Languages** : C, C++, Bash Scripting, HTML, Javascript, jQuery, PHP, Python  
**Tools** : Matlab, GNU Radio, L<sup>A</sup>T<sub>E</sub>X, Git, Wireshark

## POSITIONS OF RESPONSIBILITY

- **Student Companion** | *Institute Student Companion Program, IIT Bombay* (Jul'18 - Jun'19)
- **Interview Coordinator** | *IIT Bombay* (Dec'18)
- **PG Bridge Course Overall Coordinator** | *Electrical Department, IIT Bombay* (Jul'18)
  - Organized a week long program including hands-on workshops, and lectures for PG freshers.
- **Web Secretary** | *Hostel 1, IIT Bombay* (Jul'17 - Jun'18)