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)*
- 3rd 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, LaTeX, 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)*