

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.
- **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

- **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.
- **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**.
- **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**

KEY COURSE PROJECTS AND SEMINAR

- 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)
- Basic **Image Editor** | *Image Processing* (Jul'18 - Nov'18)
- Image **Dehazing** through Depth estimation | *Image Processing* (Jul'18 - Nov'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)

KEY COURSE PROJECTS AND SEMINAR

Languages : C, C++, Bash Scripting, HTML, Javascript, jQuery, PHP, Python
Tools : Matlab, GNU Radio, L^AT_EX, Git, Wireshark

RELEVANT COURSES

- Digital Message Transmission
- Wireless and Mobile Communications
- Information Theory and Coding
- DSP and its Applications
- Image Processing
- Statistical Signal Analysis
- Introduction to Machine Learning
- Applied Linear Algebra
- Communication Networks

OTHER ACTIVITIES & INTERESTS

- **Volunteered** for **Python** workshop by PGAC, IIT Bombay (Oct'18)
- **Volunteered** for **Linux** workshop for Electrical Department PG Bridgecourse, IIT Bombay (Jul'19)
- **Hobbies**: Watching TV series, solving puzzles, chess, snooker