

# SRAVAN PATCHALA

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## ACADEMIC HIGHLIGHTS

**Indian Institute of Technology, Bombay** | *Mumbai, India* [July '14 - Present]

Dual Degree (Bachelor & Master of Technology) in Electrical Engineering : 8.48/10.0

Minors in Industrial Engineering and Operations Research: 8.5/10.0

**Common Admission Test (CAT)** | *Common exam for admission to business schools in India* ['18]

Secured 99.94 percentile overall; 97.61, 99.88 & 99.88 percentiles in Verbal, Logical Reasoning & Quant resp.

**Joint Entrance Examination (JEE)** | *Common exam for admission to engineering colleges in India* ['14]

Secured All India Ranks of 639 and 433 (out of 1.4M and 150k resp.) in JEE Mains and JEE Advanced resp.

## KEY LEADERSHIP ROLES

**General Secretary, Technical Affairs** | *Elected representative of 10k+ students* [Apr '17 - Mar '18]

- Led a 3-tier team of 16 managers and 100+ volunteers to handle 300+ events and a budget of ~USD 50k
- Awarded Institute Executive Organisational Color, given to 2 among 16 top-tier institute student body heads
- Launched new clubs for niche topics (BioX, Energy, HAM) to achieve an increased outreach of 1k+ students
- Promoted pan-IIT growth by helping other IITs setup tech-bodies and drafting Inter-IIT Tech Constitution
- Coordinated 'Tech & RnD Expo' to exhibit 50+ student projects to 2k+ attendees including faculty and alumni
- Restructured council to consolidate all student-led tech activities and streamline interactions among tech-teams

**Contingent Leader, IIT Bombay** | *7th Inter IIT Tech General Championship* [Oct '18 - Dec '18]

Spearheaded IIT Bombay's participation to finish Overall Runner-Up and secure podium finishes in all competitions

**Manager, Robotics Club** | *Students' Technical Activities Body, IIT Bombay* [Apr '16 - Mar '17]

- Led a team of 6 members to organise events and discussions for 500+ students of the robotics community
- Addressed crowds of 200+ on introductory and advanced talks on mechanical grippers and image processing
- Coordinated 90 Technical Summer Projects and achieved 50% y-o-y growth in completion rate of projects

**Convenor, Robotics Club** | *Students' Technical Activities Body, IIT Bombay* [Apr '15 - Mar '16]

- Planned and executed 'XLR8', IITB's biggest technical competition; oversaw 100% y-o-y growth in participation
- Pioneered 'How Things Work' sessions; gathered large audience and was subsequently adopted by other clubs

## KEY INTERNSHIPS & RESEARCH PROJECTS

**Visiting Scholar at Netlab, UNIST, South Korea** | *Master's Thesis* [Summer '18]

- Co-authored 'On the Economics of Network Interconnections and Net Neutrality' paper - COMSNETS'19
- Developed conditions using microeconomics models for content providers to connect directly to service providers
- Analysed content provider market-coverage by content distribution networks and documented its implications

**Engineering Intern at Qualcomm** | *Product Commercialisation Team, Hyderabad* [Summer '17]

- Extended a full-time job offer; awarded a 'QualStar' for my contributions to two currently-live projects
- Designed and developed user-customisable web-based solutions to monitor and manage chipsets' lifecycles
- Developed tools to facilitate software-leads to retrieve and schedule customized reports based on multiple criteria

**Learning in Decentralised Multi-Arm Bandits** | *Guide: Prof. M. Hanawal, IEOR IITB* [Spring '18]

- Co-authored 'Distributed Learning & Optimal Assignment in Multiplayer Networks' paper - INFOCOM'19, Paris
- Awarded an Undergraduate Research Award for exceptional research contributions to this project
- Designed novel learning and signalling algorithms to allocate resources to competing decentralised users

## EXTRA-CURRICULAR ACTIVITIES

- Won bronze medal in the Campus Sustainability Challenge at 7th Inter IIT Tech General Championship ['18]
- Won bronze medals in Case Study Competitions at 6th and 7th Inter IIT Tech General Championships ['17, '18]
- Guiding 25+ juniors in matters of academic, social and personal development as a Student Mentor ['16-Present]
- Volunteered in Medical Camps by Sri Sathya Sai Seva Organisation for poor and underprivileged people ['10-'14]
- Selected as Teaching Assistant for Probability and Random Processes course for 70+ undergraduates ['18]
- Qualified for Round 2 of Blackstone Business Challenge; analysed market performance of 3 Indian airlines ['18]