

Sravanthi Chede



Contact & Info

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- Languages: English, Hindi, Telugu

EDUCATION

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| 2020- Ongoing | PhD Degree (8.55 / 10) 📍 Punjab <i>in Theoretical Computer Science</i> <i>Indian Institute of Technology (IIT) Ropar</i> Completed the required course credits, gave a Thesis Proposal Seminar and published two conference papers in the field. |
| 2016-2020 | Bachelor Degree (8.24 / 10) 📍 Nagpur <i>in Computer Science & Engineering</i> <i>Indian Institute of Information Technology (IIIT) Nagpur</i> Completed 40+ courses, took-up a semester long paid internship on ML and created a bug tracking system for the BTech project. |
| 2014-2016 | Higher secondary education (96%) 📍 Hyderabad <i>in TSBIE board, Excel Junior College</i> |
| 2014 | Matriculation (91%) 📍 Hyderabad <i>in ICSE board, St. Joseph's Public School</i> |

WORK EXPERIENCE

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|-------------------------|---|
| 2021 - Today | Teaching Assistant for BTech students [\$] 📍 Punjab <i>Indian Institute of Technology (IIT) Ropar</i> Feb-May'21: Introduction to computing and Data Structure July-Dec of 2021, 2022, 2023, 2024: Data Structures Jan-May of 2022, 2023, 2024, 2025: Theory of Computation From July of 2025: Design and Analysis of Algorithms Also guided 40+ BTech student-teams with their projects |
| July 2019 - Dec 2019 | Machine Learning Intern [\$] 📍 Pune <i>Tata Research Development and Design Centre (TRDDC)</i> The goal of this intern was to assist in Video & Audio analysis for Emotion-Detection using ML & DeepLearning. |
| May 2018 - July 2018 | Intern Software Developer 📍 Hyderabad <i>Defence Research Development Organization (DRDO)</i> The goal of the project was to develop a website for internal asset management for DOI and a mini-MySQL implementation. |

PUBLICATIONS

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| Conference Proceedings 2024 | Circuits, Proofs and Propositional Model Counting, Sravanthi Chede, Leroy Chew, Anil Shukla, <i>44th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS), India,</i> doi |
| Conference Proceedings 2023 | Extending Merge Resolution to a Family of QBF-Proof Systems, Sravanthi Chede & Anil Shukla, <i>40th International Symposium on Theoretical Aspects of Computer Science (STACS), Germany,</i> doi |
| Journal Article 2021 | World War III analysis using signed social networks, Ranjana Roy Chowdhury, Shivam Gupta & Sravanthi Chede, <i>Social Network Analysis and Mining,</i> doi |

Research Accomplishments

- Presented the FSTTCS-24 result as a **poster** at the SYNTACS conference of IIT Ropar in March 2025.
- Delivered an **invited talk** on the FSTTCS-24 result at the Advances in Modern Complexity Theory Workshop 2025 held at IMSc, Chennai.
- An earlier version of the FSTTCS-24 result was accepted as a **workshop paper** in MCW 2024 held at TRDDC, Pune.
- Following the STACS-23 result, an **extended version was invited** to be submitted to the reputed ACM Transactions of Computation Theory Journal.
- Won the '**Best Presenter Award**' at the Research Scholar's day of IIT Ropar in April 2023.
- Gave a **talk** on "Motivation to Proof Complexity" at IIT Ropar as a part of the Department Lunch Presentations in March 2023.
- Presented the STACS-23 result as a **poster** at IIT Ropar as a part of the CSE Sankalanam programme in Feb 2023.

Preprint manuscripts

- ❑ **Understanding Nullstellensatz for QBFs,** [doi](#)
Sravanthi Chede, Leroy Chew, Balesh Kumar and Anil Shukla.
- ❑ **Does QRAT simulate IR-calc? QRAT simulation algorithm for $\forall\text{Exp}+\text{Res}$ cannot be lifted to IR-calc,** [doi](#)
Sravanthi Chede and Anil Shukla.
- ❑ An extended version of STACS-23 paper is under review in a Journal.

Research service

- Acted as a sub-reviewer for the SAT-2025 conference.
- Active reviewer for the Logical Methods in Computer Science Journal.
- Provided benchmarks for the Model Counting Competition of 2025.

CAMPUS ACTIVITIES

- PhD Representative for the CSE Dept of IIT Ropar (2022-2024).
- Headed the Treasury department for Fresher's day in 2023 and again in 2024 at CSE,IIT Ropar.
- Been the Technical General Secretary of IIIT Nagpur and organized a national level technical fest 'TANTRAFIESTA' in 2018.
- Head of the Research Club, 'REAP' at IIIT Nagpur (2018-2020).
- Headed Institute level 'Anti-Ragging Committee' (2018-2020).
- Headed the Anchoring department in the cultural fest 'ABHIVYAKTI' 2018 at IIIT Nagpur.
- Bagged the First Prize in the Fashion show 'INCREDIBLE INDIA' of ABHIVYAKTI 2017 at IIIT Nagpur.

Other Interests

Books 📖

Movies 🎬

Driving 🚗

Classical dance 🕺

Travels 🌍

Singing 🎤