Sravanthi Chede

Contact & Info

- Born in Nov of 1998
- Personal: sravanthichede@gmail.com
- Official: sravanthi.20csz0001@iitrpr.ac.in
- Hyderabad, India
- sravanthi-chede-b20ab3140
- sravanthi-ch
- https://sravanthi-ch.github.io/webpage/
- **Languages:** English, Hindi, Telugu

🎓 EDUCATION

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

💼 WORK EXPERIENCE

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

📖 PUBLICATIONS

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

🏆 Research Accomplishments

- Presented the FSTTCS-24 result as a **poster** at the SYNTACS conference 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.

✒ Pending Archive papers

- ☐ **Understanding Nullstellensatz for QBFs**, 🔗doi Sravanthi Chede, Leroy Chew, Balesh Kumar and Anil Shukla.
- ☐ **Does QRAT simulate IR-calc? QRAT simulation algorithm for $\forall$Exp+Res cannot be lifted to IR-calc**, 🔗doi Sravanthi Chede and Anil Shukla.
- ☐ An extended version of STACS-23 paper is under review in the ACM TOCT Journal.

🔍 Research support

- 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 🎤