

EDUCATION

National Institute of Technology, Patna

GPA: 7.42/10.00

B.Tech. in Electronics and Communication Engineering

2016–2020

- Capstone Project: “Simulation of hybrid plasmonic waveguides based devices and its applications”
- Advisor: Dr. R. Ranjan

RESEARCH EXPERIENCE

Research Assistant

July 2021–Present

SPIRE Lab, IISc Bangalore

India

- Advisor: Prof. Prasanta Kumar Ghosh
- Project: Speech Recognition in Agriculture and Finance for the Poor in India

Undergraduate Researcher

July 2019–June 2021

Department of ECE, NIT Patna

India

- Advisor: Dr. S. Shahanawazuddin
- Publications: [1], [2]
- Developed robust children’s speech recognition systems in low-resource conditions, explored the effect of formant scaling based data augmentation to improved the performance of children’s speaker verification systems in low-resource conditions.

Summer Intern

May 2019–June 2019

EICT Academy, IIT Guwahati

India

- Advisor: Dr. Gaurav Trivedi
- Project: Cascade filter bank implementation of discrete wavelet transform

PUBLICATIONS

- [1] S. Shahnawazuddin, A. Kumar, **Saurabh Kumar**, and W. Ahmad, “Enhancing robustness of zero resource children’s speech recognition system through bispectrum based front-end acoustic features”, *Digital Signal Processing*, vol. 118, p. 103 226, 2021, ISSN: 1051-2004.
- [2] S. Shahnawazuddin, A. Kumar, V. Kumar, **Saurabh Kumar**, and W. Ahmad, “Robust children’s speech recognition in zero resource condition”, *Applied Acoustics*, vol. 185, p. 108 382, 2022, ISSN: 0003-682X.

SKILLS

- Python, Kaldi, Bash, MATLAB, Perl, TensorFlow

LANGUAGES

- **English:** Professional working proficiency
- **TOEFL:** 99/120 (Reading: 28, Listening: 25, Speaking: 24, Writing: 22)
- **Hindi:** Native or bilingual proficiency
- **Bhojpuri:** Native or bilingual proficiency

POSITION OF RESPONSIBILITIES

- Web coordinator of Yoga and Meditation Club of NIT Patna in 2018-19.
- Member of organizing committee of the annual cultural fest of NIT Patna in 2018.

EXTRACURRICULAR ACTIVITIES

- Attended a five days TEQIP-III sponsored workshop on Machine Learning Speech Processing, conducted by the Dept. of ECE, NIT Sikkim, in February 2021.
- Attended a two days workshop on embedded systems, organized by TechieNest Pvt. Ltd., in October 2017.
- Attended a summer training program on Core Java, organized by Oracle through RCPL India, in May 2017.
- Co-organized a fundraising to help flood-affected people of Bihar in 2017.