

# Shruti Kshirsagar

20/B-26, Pratik CHS, Gorai-1, Borivali (W), Mumbai, India

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## RESEARCH EXPERIENCE

### Research Assistant | Nanyang Technological University, Singapore

*May 2017 - Present*

- Working on “Analysis of prosodic pattern for the speech emotion recognition”.
- Analyzed pitch patterns for the different emotions.
- Conducting experiments to investigate novel features for speech emotion recognition using DNN.

### Masters Dissertation Thesis | Indian Institute of Technology Bombay, India

*Aug 2015 – June 2016*

- Studied the pitch, intensity and duration of utterances using techniques such as one way ANOVA.
- Identified the acoustic correlates of stress in Marathi language using MATLAB and PRAAT.
- Modelled these acoustic features in different lexical stress locations and focus types.

## PUBLICATIONS

- “Quantitative study of focus shift in Marathi” published in Speech Prosody 2016, Boston with Prof. Preeti Rao and Prof. Hansjörg Mixdorff.
- “Prosodic feature of Marathi news reading style” published in Tencon 2016, Singapore with Prof. Preeti Rao and Dr. Nandini Bondale.

## EDUCATION

### IIIT Hyderabad, India

*December 2016 – Present*

PhD in Electronics and Communication Engineering  
Specialization: Speech Processing @ Speech and Vision Lab

### Mumbai University, India

*August 2014 – July 2016*

Masters in Electronics and Telecommunication Engineering  
Specialization: Signal Processing | CGPA: 9.08/10

### Mumbai University, India

*August 2010 – May 2014*

Bachelors in Electronics and Telecommunication Engineering  
Percentage: 72.64%

## TECHNICAL PROFICIENCY

Programming Languages: C, C++, Python

Software Packages: Praat, MATLAB

## TEACHING EXPERIENCE:

### Private Tutor

*May 2015 – Dec 2016*

Taught following courses to undergraduate engineering students:  
Signal and Systems, Random Signal analysis, Linear Algebra, Probability and Random Variables

### Author, Solution Manual

*Feb 2015*

Formulated solutions for engineering exams held between years 2011 – 2014 by Mumbai University.

## INTERNSHIP:

### Doordarshan Kendra (National Television Channel, India)

*July 2013*

- Field study of signal processing equipment used in broadcasting.
- Understood and visualized the signals at each stage of transmission.