

# Jay Joshi

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## OBJECTIVE

I love to build. I have been building, failing and learning for six years, now I am looking for the opportunities to do real work and get toe to toe with great people.

## EDUCATION

### B. Tech in Information Technology

Nirma University, Ahmedabad

Expected June 2019

CGPA 7.41/10.00

**Coursework:** basic Computer Science and electives such as Machine Learning, Deep learning, Cloud computing, Financial Management, Banking & Finance

**MOOC:** *Practical Deep Learning for Coders* by Fast.ai, instructed by Jeremy Howard, University of San Francisco

## PROJECTS

### 1) Brain Tumor Detection in Medical Images

July 2018-Present

- Investigated parameters for selection of model and domain-specific challenges of medical images.
- Currently experimenting with a variation of U-Net Model to use semantic segmentation for tumor detection

### 1) Voice Activity Detection (VAD) using Deep Learning

Jan 2018-April 2018

- Achieved 15% improvement in accuracy over traditional methods measured over AMI Meeting Corpus by using new frequency band sampling techniques and Artificial Neural Networks.
- Implemented all the basic stages such as preprocessing, learning and testing. Used Google Colab for the computations.
- I did a comparative survey of my deep learning model with classical models suggested in the literature.

### 2) TextShorts

Aug 2017-Dec 2017

- It is a tool to highlight important sentences in a text document. It uses the unsupervised model to give "extractive" summary of the document.
- Achieved good results over the inputs like scientific research papers by using tf-IDF and Glove Embedding. Researched about the adversarial inputs for the model

### 3) Evento

Jan 2017-April 2017

- It is a web-based invitation management system which provides an easy way to manage invitations. We also used it in one of our college events.
- I developed a small Java library called "nanoServer" from scratch. nanoServer is a micro web framework for creating web interfaces and processing HTTP requests.

## WORK EXPERIENCE

### Summer Internship, Nirma University

May 2018-Jul 2018

- Developed a cross-platform expense tracking mobile app using Flutter.
- Created API endpoints in ExpressJS, user management using PassportJS and custom middleware. I used MongoDB and Mongoose at database end.
- Prototyped small demonstration projects in both React Native and TensorFlow.js.

## SKILLS

**Technical Skills:** Object-oriented Design, Design Patterns, Core Java, Python, Deep learning, Computer Vision, Algorithms and Data structures

**Soft Skills:** Team Work, Adaptability

## CO-CURRICULAR ACTIVITIES

- Open Source Contribution** - Recently I have been contributing on Github. Currently, I am an active contributor in some open source projects such as Keras, "chelper" by Egor Kulikov, Pytorch website repo. Currently active in hosting workshops to encourage opensource development in my campus.
- Kaggle** - Recently started participating on Kaggle, I have secured 717<sup>th</sup> rank (99.25% accuracy) on digit recognition competition using very small size model
- Ideation Round Prize, TopCoder-HumbleFool Hackathon (Team of 3)** - Our idea was selected as one of the best ideas during the hackathon. My contribution was to ideate, make ideas more engaging and compile a proper documentation.

## ORGANIZATIONS

- Technical head, CodeAdda, Nirma University, worked on designing technical event and executing them

**INTERESTS:** Physics, DIY Projects, Mobile Photography, YouTube, Medium, Anything Technology