

# Prajwal Prashanth

Student, Computer Science and Engineering



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English|Kannada|Hindi

## EDUCATION

**Bachelor of Engineering, VTU**

2015-present

CSE | SJBIT, Bengaluru | CGPA: **7.3** (upto 6<sup>th</sup> sem)

## ACHIEVEMENTS

- **WiDS Datathon 2019 as a Kaggle InClass Competition** secured rank 30.
- **Genpact Machine Learning Hackathon** secured rank 31(out of 3872 participants)
- **AmExpert Nov'18** (Machine Learning Hackathon) secured rank 154 (out of 4526 participants)
- **3<sup>rd</sup> runner-up**, Haxploit'18 (Hackathon of 30+ teams)
- **Quarter finalist** in DST & Texas Instruments India Innovation Challenge Design Contest 2017 by IIM-B
- **2<sup>nd</sup> place** in Quiz Competition, Unnathi'13
- **1<sup>st</sup> place** in Fiesty Minds'12 Science Exhibition
- **7<sup>th</sup> (State level)**, 14<sup>th</sup> Science Talent Examination
- **6<sup>th</sup> (District level)**, 13<sup>th</sup> Science Talent Examination
- **1<sup>st</sup> place** Hockey & Kabbadi(inter house competition)

## COURSEWARES

- **Neural Networks and Deep Learning** on Coursera
- **Machine Learning** by Stanford University on Coursera
- **Machine Learning and Applications** by SJBIT
- **Web Development** by SJBIT IEEE Student Chapter
- Certificate Program in **Intelligent Systems** by Intel College Excellence Program and FICE
- Basics of **IOT** by Ethnotech Academic Solutions

## RESPONSIBILITIES

**Lead** 2017-present | **Member** 2015-2017  
Sadhrush, SJBIT Photography Club

**Vice-chairman** 2017-2018  
IEEE SJBIT Student Chapter

**Core Committee Member** Feb 2018  
Cipher'18, Intercollegiate Technical Fest

**Times NIE School Reporter** 2011-2012  
School's Representative, TOI's Student Newspaper

**House Council Leader** 2009-2010  
Higher-Primary, Emerald House

## AFFILIATIONS | OUTREACH

### Technical Groups and Meetups

Attending technical meetups around Bengaluru. Data Science India, School of AI, MLBLR, The Blockchain University, MantissaDataScience Group

### One Rupee Revolution

Part of this NGO since 2 years which helps by providing funding for the deserved students at PU level.

### Insta Meets | Photo Walks

Photography meet-ups to share and gain knowledge.

## EXPERIENCE

**Machine Learning Intern, Datalore Labs**

Jan 2019 - present

Datalore Labs are working on a product named StockLore for predicting trends in stock markets. As the price data may change drastically, i worked on how to normalize when stock split and bonus are issued, made a general function with just stock code as a input, it'll scrape and return normalized data.

**Fast.ai Live (International Fellowship)**

Oct 2018-Dec 2018

Cutting edge Deep Learning with practical first approach, worked on image classifiers, sentiment analysis & tabular

**External Internship Program, Inkers.ai**

Sep 2018-Nov 2018

Inkers is a AI based start-up under NVIDIA inception program. This experience got me started with CNN's and took all the way till implementing a paper with modifications. I graduated to phase 2 of this programme which will be in 2019.

## PROJECTS

### Worked on DenseNet Architecture

Implemented different variations of DenseNet with BottleNeck and Compression techniques used in the paper to reduce the parameter count drastically. Achieved 93.4 % Validation Accuracy under 100 epochs by integrating learnings from fastai about cyclic learning rate which accounted for faster convergence.

**CIFAR-10/Keras/Goggle Colab/Cyclic Learning Rate**

### Tabular Data using Embeddings

This approach was used in a kaggle competition to get to the top leaderboard without making use of many things or manual feature engineering. Using fastai implemented the same for my participations in hackathons.

**Python/fastai/Deep learning approach for tabular data**

### Custom CNN

Built my first own small CNN for handwritten digits classification using keras. Key takeaway is that i used separable conv (1x3 and 3x1) which is equivalent of normal 3x3 filters , is computationally efficient and still achieved 99.2% .

**Python/Keras/MNIST/Seperable Convolution**

### NotesApp

Get summarized text by clicking a picture of text from a textbook or a screen-shot of an e-book. Oriented towards students who study at 11th hour and also for anyone who needs a quick revision through keywords.

**Python/OCR API/Gensim Summarizer API/Team of 4**

## SKILLS

### Programming Languages

Python, Java, C++

### Data Science

Machine Learning, Deep Learning, Keras, Pytorch, Fastai, Numpy, Pandas, Matplotlib, BeautifulSoup4

### Web Design and Development

HTML, CSS, jQuery, PHP, SEO

## HOBBIES

Photography | Travelling | Cricket