



# CSEA IITG.AI ML Talk

3rd October 2021



# Starting with ML

Important Resources to get started -

- 1) IITG.ai summer course - [link](#)
- 2) Summer Analytics - [link](#)
- 3) Andrew N.G Course - [link](#)

Advanced ML courses -

- 1) Deep Learning Specialization - [link](#)
- 2) Deep Learning Book - [link](#)



# Projects:-

Basic ML projects good for beginners( can try after completing Andrew NG or Summer Analytics or the first 3 weeks of IITG.ai course)

- 1) [Titanic Survival prediction](#) and [Housing prices prediction](#)
- 2) A Good resource to get started - [Thirty days of ML](#)
- 3) [Tabular Playground Series](#)



# Projects Continued:-

After completing courses on DL you can start with projects in these areas:-

CV:-

1. Character Recognition on MNIST
2. Basic Image Classification (Cat and dog classifier etc)
3. Face Recognition
4. Object Detection/ Image segmentation



# Projects Continued:-

NLP:-

- 1)Text Classification ( For example - Sentiment Analysis)
- 2)Chatbots
- 3)Neural Machine Translation
- 4)Image Captioning ( requires knowledge of both cv and nlp)



# Competitions on ML and DL

- 1) Kaggle, the best place to test your ML/DL expertise
- 2) Hackerearth
- 3) Machinehack
- 4) Analyticsvidhya
- 5) Dockship
- 6) [MLcontests](#) - A Resource for competitions



# Internships:-

## Summer Research Internships:-

- 1) [SRFP](#)
- 2) Chubu University (only for ECE EEE)
- 3) [SPARK IIT Roorkee](#)
- 4) Polytechnique Montreal
- 5) Research Labs at various colleges ([MIDAS](#), [LCS2](#) at IITD , other IITs , IIITs)
- 6) [SRIP](#) at iit gandhinagar
- 7) Mailing Professors
- 8) Through seniors who are working on projects with other researchers

## Industrial:-

Off-campus, through connections, hiring challenges, etc



# The Perfect Timeline

Basic ML(1week) → Basic ML Projects (1-2 weeks)→ DL courses (4-5 weeks)→ DL Projects(CV or NLP or Both) (1-2 weeks)→ Start Applying for Interns and ML competitions