



ACM Student Chapter at IGDTUW (Technical Society at IT Dept)



with the technical support of



presents

Online Summer Workshop-cum-Internship

15th June - 31st July
2020

Online Summer Workshop-cum-Internship

TOPIC

Data Science & Machine Learning
using Python

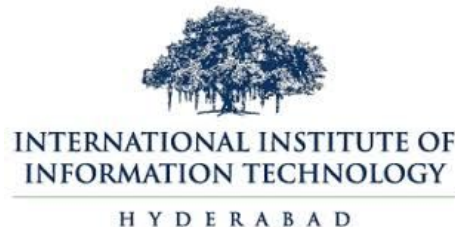
About Myself

Assistant Professor at Department of Information Technology, 2011

BTech from GGSIPU

MS by Research from IIIT-Hyderabad

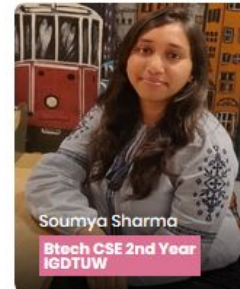
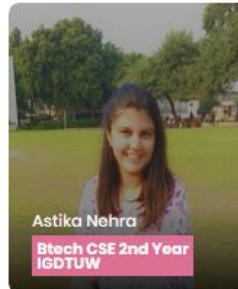
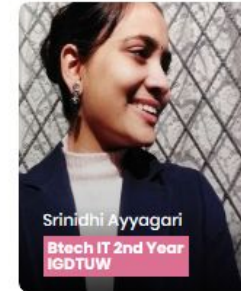
Pursuing PhD from IIIT-Delhi from Precog Research Lab



ACM Student Chapter

Technical society established at Department of Information Technology, 2011

Driven by student core team



Past Workshops - 1

Project Development using Advanced C Programming, June/July 2011



Past Workshops - 2

Programming Tools
& Techniques for
Project Development
in Linux Environment,
June/July 2012



Past Workshops - 3

Secure Web based Application Development, June/July 2013



Past Workshops - 4

Online Social Media - Developer's Perspective, June/July 2016



Past Workshops - 5

Data Science & Machine Learning, June/July 2017



Past Workshops - 6

Data Science & Machine Learning, June/July 2019



Online Summer Workshop-cum-Internship

2020

Data Science & Machine Learning

using Python

Data Science + Machine Learning

↓
Python (tool) } Environment
Anaconda, GitHub, etc.

- ① Python / Data Structures
 \ Libraries for Data Processing
- ② Data Collection / APIs - programatic interface
 \ Web Scraping
- ③ Data bases — mySQL, mongoDB, python

④ Data Preprocessing

- Collected data not of good quality
- Issues: missing values, categorical variables, etc.

⑤ Data Visualizations

- Understand data using graphs/plots through visualizations

6. Machine Learning


→ Logistic regression

→ Linear regression

→ SVM (Support Vector Machines)

→ Decision Tree

Supervised Learning



7. Building ML Systems

(end to end learning)

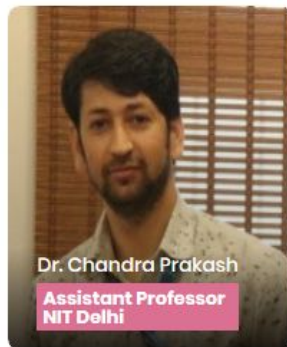
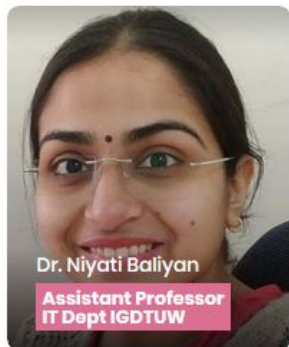
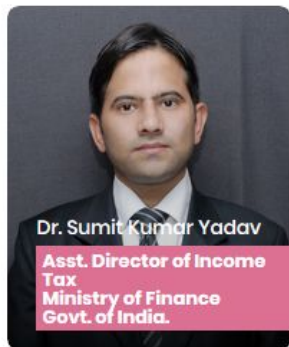
⑧ Neural networks &
Deep learning (Keras)

⑨ CNN and RNN

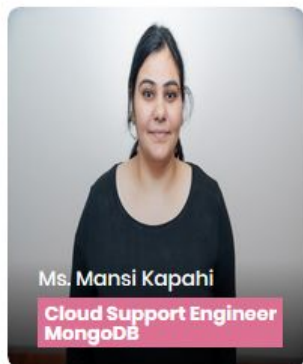
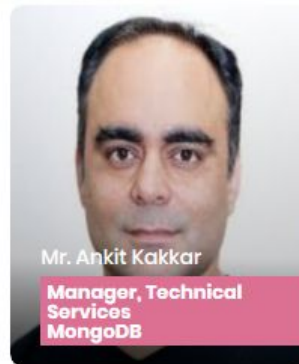
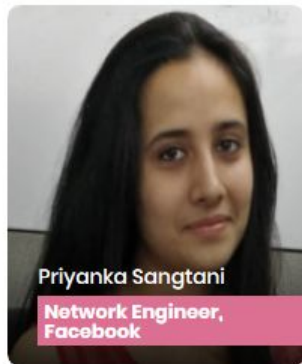
⑩ Practical Tips for Deep Learning

⑪ Deploying ML Systems

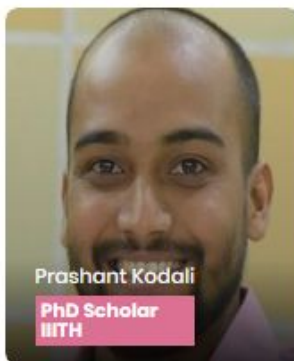
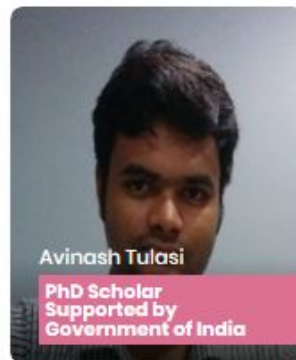
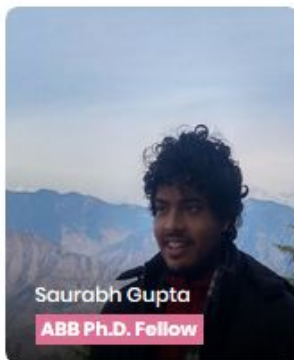
Expert Speakers



Industry Speakers



Research Scholars



Alumni Speaks



Thank You

For any queries, please contact me at

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