# Divay Jindal

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## EDUCATION

**NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR AS**

B.Tech in Computer Science
May 2017
CGPA : 8.2/10.0

## LINKS

Github:// **divayjindal95**
Kaggle://**divayml**
LinkedIn:// **divayjindal**

## COURSEWORK

### UNDERGRADUATE

Data Structure
Linear Algebra
Discrete Mathematics
Operating System Concepts

### INDEPENDENT

18.06 Linear Algebra (MIT)
STAT 110 (Harvard)
ML - Abu Mostafa (Caltech)
CS231n Computer Vision (Stanford)
Convex Opt. - Boydd (Stanford)

## SKILLS

### DATA MINING / PIPELINING

MapReduce • Sqoop
MySQL • Hive
Spark • Oozie
Kafka

### MODEL BUILDING

Python • Java
Numpy • Pandas
Scikit • Tensorflow
Keras

### MODEL SERVING

PHP • Elasticsearch
Redis

## ACHIEVEMENTS

• 2016 ACM ICPC Regionals
• IMO Round 2

## EXPERIENCE

### DATA SCIENTIST  BookMyShow

JULY 2018 – Present

- Periodic penetration estimation using Bayesian approach
- Designed and implemented price surge strategy for Bookmyshow events resulting in incremental revenue.

### SOFTWARE DEVELOPER  BookMyShow

JULY 2017 - JUNE 2018

- ARIMA modelling and Poisson regression for forecasting price category wise ticket sale in python with 70% accuracy.
- CF over user clustering for recommending movies. Improved conversion metric by 4% and CTR by 7%.
- Dynamic Pricing based on demand. Incorporated dynamic regression for forecasting sale in next time slot. Overall increase in penetration by 7.9%
- Naive bayes over events metadata to identify wrongly tagged events.
- RBM for recommendation on events using Tensorflow backend.
- Model serving API's in php.

### MACHINE LEARNING CONSULTANT  THE SOCIAL STREET

DEC 2016 - MAY 2017

- Face detection using HAAR classifier over 30 fps streaming video gave 83% accuracy. SVM over detected faces classified gender with 75% accuracy.

### DATA SCIENCE INTERN  Cube26

May 2016 – AUG 2016

- Developed a generic parser for any search query using word2vec to identify the types and indices of Elasticsearch. This improved the response time by 15ms.

## RESEARCH AND PROJECTS

### E2EE CHAT APP

April 2018

- Developed chat app using Signal protocol ( used by Whatsapp, Insta , Facebook currently) that guarantees forward secrecy and server privacy.
- Reduced the payload using Kryo by 10% from traditional algo.

### QUESTION CLASSIFIER USING NAIVE BAYES

March 2016

- Naive Bayes over unigram tfIdf gave 78% accuracy which outperformed both SVM and Decision trees.

### SUDOKU SOLVER USING G.A

Feb 2015– May 2015 | Prof. K.N Das , NIT Silchar

- Developed a programme to solve a 1 star, 2 star and 3 star Sudoku problem using GENETIC ALGORITHM in an unsupervised manner.

### GRAVITATIONAL SEARCH ALGORITHM WITH MODIFIED MOMENTA

May 2015 – July 2015 | South Asian University

- Based on Newtonian Gravity Principle.Serves as a technique to solve non trivial (NP-Hard) Non Convex problems ( tested for R50)
- Implemented in C++