

# Jatin Jain

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## EDUCATION

### Indian Institute of Technology (IIT) Delhi, India

*B.Tech in Electrical Engineering (Power and Automation)*

*July 2017 - May 2021*

CGPA - 8.716

### Ramakrishna Vidya Mandir, Gwalior

*12th, Central Board of Secondary Education*

*April 2015 - March 2017*

90.4%

### Gwalior Glory High School, Gwalior

*10th, Central Board of Secondary Education*

*Till March 2015*

CGPA - 10

## SCHOLASTIC ACHIEVEMENTS

- **JEE Advanced** : Secured **All India Rank 632** among 0.25 million students (*2017*)
- **NSEP** : Among **top 1%** in National Standard Examination in Physics, conducted by IAPT (*2017*)
- **VITEEE** : Secured **All India Rank 20** in VIT Entrance Examination among 0.22 million students (*2017*)

## WORK EXPERIENCE

### Member Technical Staff | Oracle, India

*July 2021 - August 2022*

*Worked within Oracle Cloud Infrastructure's AI services division for forecasting service team*

- Built and integrated **microservices**-based control plane and data plane for **forecasting** as **AI service** on **Oracle Cloud**
- Built easy to use **UI** for service for seamless call and output visualization resulting in **enhanced customer engagement**
- Implemented pipeline for pre-processing of the input data using **spark flow**-based jobs for validation, anomaly detection etc
- Developed **cheap** optimization engine utilizing **open source** solvers to establish feasibility of new **optimization as service**

### NCDEX | Data Science Intern

*May 2021 - June 2021*

- Developed the system taking **market trades** and the clients trade data to extract out key technical features for each client
- Built the ML model **clustering** traders based on these features and **raising alerts** in case of their sudden behavior change

### Oracle, India | Machine Learning and Backend Developer Intern

*May 2020 - June 2020*

*Built Covid Scholar, a tool to quickly scan and search research papers, drawing non obvious insights and connections*

- Built the complete pipeline doing the COVID relevant summarizing, **keyphrase extraction**, **tagging** and **classification**
- Using **BERT**, **LSTM** designed **SequencetoSequence** models for generating abstractive summary of large publications
- Designed easy to use intuitive UI, automating whole process from extraction to **filtered searching** to **inference** of data

### Konscience, New Delhi | Machine Learning and Backend Developer Intern

*May, 2019 - July, 2019*

*Developed political analysis tool monitoring real time news and social media activities targeting election campaigning*

- Used **selenium** and **scrapy** for **scrapping** the social political information from the online sources like facebook, twitter etc
- Built **Topic Modelling** system, identifying topics using characteristic keyword's term frequency in tokenized form of data
- Used **Non-Negative Matrix Factorization** model for **Auto Tagging**, tuned the parameters by training on 20K+ articles

## KEY ACADEMIC PROJECTS

### Machine Learning Projects | Prof. Sumeet Agarwal and Prathosh AP

*September 2019 - October 2019*

- Built a **multi layer neural network** from scratch for the classification problem with support of flexible network structure
- Trained **SVM** for binary and multi class classification using **LIBSVM**, improved the performance by using **PCA** before it
- Implemented basic **linear regression** and **K-Means algorithms** for their respective regression and clustering problems

### Single Cycle Processor | Prof. Smruti Ranjan Sarangi

*September 2019 - October 2019*

- Implemented the basic single cycle processor design providing implementaion of the entire **simpleRisc instruction set**
- Successfully simulated it in the **logisim** software by processing different simple and complex executable programs on it

### Basic Search Engine | Prof. Amitabh Bagchi

*September 2018 - October 2018*

- Implemented an **inverted index** based **Ranking Algorithm** to achieve sorted display of webpages in response of queries
- Employed **HashMapping** and **AVL trees** for faster results, improving the search time complexity from **O(n)** to **O(logn)**

### Mobile Phone Tracking System | Prof. Amitabh Bagchi

*August 2018 - September 2018*

- Developed an elaborate technological framework behind **Mobile Phone Calls Networking** using the trees and hash sets
- Built a **hierarchical call routing structure** consisting of one central server with multiple exchanges and mobile phones

## TECHNICAL SKILLS AND COURSEWORK

**Programming Languages:** Java, Python, Scala, C/C++, Typescript, ARM, Matlab, MathProg

**Software Tools and Libraries:** Spring, Maven, Spark, PyTorch, Tensorflow, Keras, Flask, Reactjs, Nodejs

**Courses Done:** Data Structures And Algorithms, Intro. To Machine Learning, Computer Architecture, Intro. To Computer Science, Linear Algebra & Differential Equa., Calculus, Probability & Stochastic Pro., Optimization Methods and Appl.

## EXTRA CURRICULAR ACTIVITY

**Maintenance Secretary:** Selected unanimously among 450+ students to solve maintenance related problems and work for betterment of the hostel

**Social Service:** Taught underprivileged students and mentored extra curricular activities for the NGO like Aahvan - Ek Pehel