# Nehul Patel

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## Education

**Indian Institute of Technology, Delhi** Aug 2016 – Aug 2022
*Dual Degree (B. Tech and M. Tech) in Mathematics And Computing* *M. Tech CGPA - 7.111/10.0*
*B. Tech CGPA* - 6.778/10.0

## Work Experience

**Helloverify India Private Limited** | *Software Engineer* July 2020 – Present

- Developed a full stack web application in **python** from scratch using **Django** and **Django REST Framework**.
- Designed an address-matching algorithm using fuzzy logic and Metaphone for a criminal check rule engine
- Trained random forest classifier model to classify red and green criminal cases to achieve 91 % recall score
- Developed a Django-based PCC web application for project UK using Django and Django REST Framework

## INTERNSHIP

**Meril Life Sciences Private Limited** | *Widget Developer Intern* June, 2021-Jul 2021

- Designed a multi-threaded scheduler in MS Visual Studio to automate uploading process of data to Zoho CRM
- Developed Zoho dashboard widget to assist functional team compare invoice and grand total data of sales
- Executed SQL queries for data cleaning for third-party platform Zoho MiddleWare created by IT developer team
- Designed responsive slider FAQ webpage using bootstrap, .xls to .xlsx converter automation using python script

## Projects

**Meme Classifier, YouTube Trend Analysis** | *Python, Prof. Niladri Chatterjee* Feb 2021 – May 2021

- Extracted numerical features from text into vectors using CountVectorizer to implement Naïve Bayes Classifier
- Classified dataset using SVM, Decision tree and Random Forest classifier to predict the behavior of memes

**Linux Shell, Operating Systems** | *C, Prof. Ashutosh Rai* May 2020 – Jun 2020

- Built working linux-like shell in C using fork, exec and wait system calls to create and manage system processes
- Successfully implemented echo, ls, cat, cd, mkdir, sleep, history and exit commands without crashing program

**Event-based simulation of a restaurant** | *Java, Prof. Amit Kumar* Jan 2019 – May 2019

- Created highly scalable object-oriented and discrete event-driven simulation environment in Java for a food joint
- Used MinHeap, AVL tree data structures to maintain event distribution and customer data in an efficient manner

**Mobile phone tracking system** | *Prof. Amitabha Baghchi* Jul 2018 – Nov 2018

- Implemented hierarchical structure for routing calls, maintaining location of device tracking base station of phone
- Network system for mobile exchange developed using LinkedList, Tree in JAVA to implement tracking system

**Multiset Hashing based Anagram Generator** | *Prof. Amit Kumar* Jun 2020 – Jul 2020

- Built the basic data structure underlying a **Search Engine, the inverted index** using **Set** and **AVL Tree**.
- Implemented a **vector-based similarity measure**, Document Distance, to find **similarity in documents**.

## Technical Skills

**Languages:** Python, Java, C++, C, MATLAB, R
**Database:** Microsoft SQL Server, MongoDB, MySQL Workbench
**Software:** MS Visual Studio (asp.net), LATEX, HDL Verilog, Autodesk Inventor
**Developer Tools:** Git, Postman, Visual Studio Code, Putty | **Framework:** Django, React

## Courses Done

**IIT Delhi Courses**: Data Structures Algorithms, Analysis and Design of Algorithms, Probability Theory, Operating Systems, Data Mining, Probability theory and stochastic processes, Statistical Methods, Financial Mathematics