



PRATEEK SINHA



ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Mathematics & Computing	Indian Institute of Technology, Delhi	8.778
2019	CBSE	Khaitan Public School, Sahibabad	96.8
2017	CBSE	Khaitan Public School, Sahibabad	10

PROJECTS

- **CMF detection using NMF (Prof. Punit Sharma) - SURA project** (May, '21 - ongoing) :
<https://github.com/amitekwari1/SURA>
 - Project done under the SURA programme
 - Comparing detecting Copy-Move Forgery(CMF) using Non-Negative Matrix Factorization(NMF) to existing method of detecting CMF
- **Dynamic Memory Allocator (Prof. Rahul Garg)** (Nov '20- Dec '20) :
<https://github.com/moonstruck1991/Dynamic-Memory-Allocator>
 - Project as part of COL106 course
 - A dynamic memory allocator to model memory allocation using DLL, BST and AVL Tree.
- **Characters-and-relationships (Prof. Rahul Garg)** (Dec '20- Jan '21) :
<https://github.com/moonstruck1991/Characters-and-relationships>
 - Project as part of COL106 course
 - Helps to find average number of associated characters, ranking characters by appearances and number of independent storylines
 - This project is an application of Graph Theory and functions like DFS.
- **FoodTracker WebApp (DevClub IITD Hackathon 2019)** (3rd position; Dec '19) :
<https://github.com/webster-781/SERVERMONK>
 - The Problem statement was to develop a web/android application using APIs
 - FoodTracker helps you track your daily intake of different nutrients in order to control them and help you have a healthy lifestyle.
 - It uses the Nutritionix API to get the nutritional value for the different food you eat during the day

SCHOLASTIC ACHIEVEMENTS

- **KVPY Scholar:** awarded to 0.1% students in India
- **NTSE Scholar:** awarded to only 1000 students out of the million who apply

TECHNICAL SKILLS

- **Languages:** Java, Python, C++, R, JavaScript, C#
- **Software:** Tensorflow(Keras), Git, GitHub, MongoDB, Node.js, Express, AutoCAD

EXTRA CURRICULAR ACTIVITIES

- Member, Timeline Films (Nov '20 - Jul '21)



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IIT COURSE

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COURSES DONE

Calculus, Linear Algebra & Applications, Microeconomics, Data Structures And Algorithms, Optimization Methods & Appl., Discrete Mathematical Struc.

QUALIFYING EXAM

- **Joint Entrance Examination (JEE) Advanced Rank: 244 (GE)**

EXTRA CURRICULAR ACTIVITIES

- Performer, Inter Hostel Group Dance Competition 2020 (January, 2020 - March, 2020)