

# HITESH GUPTA

Fourth Year Undergraduate

Double Major- Computer Science, Civil Engineering · Indian Institute of Technology Kanpur

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## EDUCATIONAL QUALIFICATIONS

Degree	Year	Institution/Board	CGPA/%
B. Tech ( <b>Double Major</b> )	2021	Indian Institute of Technology, Kanpur	9.2/10.0
Sr. Secondary	2016	Nirmal Happy School, Hindaun City (R.B.S.E.)	91.2
Secondary	2014	PSC Foundation School, Hindaun City (R.B.S.E.)	95.0

## ACADEMIC ACHIEVEMENTS

- Received **Academic Excellence Award** for exceptional performance in 2nd year 2018
- Secured All India Rank of **630** in **KVPY (Kishore Vaigyanik Protsahan Yojna)** 2016
- Secured All India Rank of **2660** in **JEE (Advanced)** given by about 200 thousand students 2016
- Secured All India Rank of **1804** in **JEE (Mains)** given by about 1.4 million students 2016
- Secured State Rank **15** in **SOF-IMO (International Mathematics Olympiad)** 2015

## INTERNSHIPS

- Image matching and classification**, *TransPacks LTD, IIT Kanpur* Winter'19
  - Worked on Edge Detection of Images using **OpenCV**.
  - Worked on Matching-Algorithm of two Images.
  - Developed DL Models based on **AlexNet**, **VggNet**, **ResNet**, **Tiny-DarkNet** for Image classification.
- Retrieval-based Chat Bot**, *EJET Systems, Noida* Summer'19
  - Designed a **Food Entity Recognition** model to identify food items & their attributes in a sentence using **NLTK**
  - Using word embedding, built a **Food Recommendation Model** and a **Binary Sentimental Analysis Model**
  - Built a **Classifier model** to classify user input into pre-defined intents using **GRU** layers and **word embeddings**

## PROJECTS

- FIR Management System**, *Prof. Arnab Bhattacharya* 🌐 Project Link Jan '19 - Apr '19
  - Used the **LAMP** (Linux, Apache, MySQL, PHP) infrastructure with HTML/CSS to implement front & back-end
  - Separated the system into two modules- a simple **FIR creation and viewing wizard** for the victims; and a **password protected module** only for authorized police access, eliminating the risk of sensitive information
  - Incorporated multiple **triggers** to ensure **auto-updation** and allow the use of complex queries for user
- Handwritten Digit Recognition**, *Self Motivated Project* 🌐 Project Link Jul '18 - Aug '18
  - Built a **Pattern Classification** system for handwritten digits, using **ML** techniques on the data from **MNIST**
  - Used **Data Augmentation** to expand the dataset from 40k to 25 million images, facilitating deep neural networks
  - Achieved an accuracy of **99.75%** on **Kaggle's** Test Data Using **CNNs** and **Ensembling Methods**

## TECHNICAL SKILLS

- Programming Languages:** Python, C, C++,  $\text{\LaTeX}$ , SQL
- Software and Utilities:** TensorFlow, PyTorch, Numpy, MATLAB, Sqlite3, Unix, QGIS, Autodesk (CAD) Inventor

## RELEVANT COURSES

Machine Learning (A)	Data Structure & Algorithms (A)	Applied Probability and Statistics (A)
Operating Systems*	Theory of Computation*	Algorithms -II*
Computer Organization (A)	Software Development & Operations	Mathematics for Computer Science
Data Base Management System	Introduction to Programming	Linear Algebra & ODE

\*- Currently doing

## EXTRA-CURRICULAR

- Senior Executive (Show Management), Techkriti'18, Asia's Largest Technical Festival 2018
- Secured 1st Rank in Archery competition conducted by Games & Sports Council, IIT Kanpur 2018
- Participated in Hindi JAM competition in Galaxy'17 (annual inter-hostel festival, IIT Kanpur) 2017
- Second runner up in district level debating competition 2014
- Hobbies:** Playing table tennis, pool, painting & swimming