

# Shreyansh Singh

# IIT(BHU), Varanasi

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Computer Science and Engineering  
2nd year Undergraduate  
CPI : 9.75/10

| Examination                  | University / Board  | Institute                     | Year | CPI / % |
|------------------------------|---------------------|-------------------------------|------|---------|
| B.Tech. 1 <sup>st</sup> year | IIT (BHU), Varanasi | IIT (BHU) , Varanasi          | 2017 | 9.75/10 |
| 12 <sup>th</sup>             | CBSE                | Kendriya Vidyalaya, New Delhi | 2016 | 96.6%   |
| 10 <sup>th</sup>             | CBSE                | Kendriya Vidyalaya, New Delhi | 2014 | 10/10   |

## SCHOLASTIC ACHIEVEMENTS

Hyperlinks at appropriate places

- Secured **All India Rank 576** in JEE Advanced 2016 among 0.2 million candidates
- Obtained **99.99 percentile** in JEE Main 2016 among 1.5 million candidates
- Secured **All India Rank 116** in Kishore Vaigyanik Protsahan Yojana (KVPY) 2015, a Govt. of India initiative
- Cleared the National Talent Search Examination (NTSE) 2014, conducted by NCERT
- Certificate of Merit* in National Standard Examinations in Physics, Chemistry and Astronomy (NSEP, NSEC, NSEA) in 2015 and 2016 for being in the **top 1% (top 300)** of the country in each of them
- Cleared Junior Maths Olympiad (JMO) in both 2015 and 2016
- Secured **Delhi state rank 5** in Junior Science Talent Search Examination (JSTSE) 2013.

## TECHNICAL SKILLS AND INTERESTS

- C/C++, Python, JavaScript**, Java, HTML/CSS, Node.js, Django, Bash,  $\text{\LaTeX}$ , MATLAB, GNU Octave, PostgreSQL, MongoDB, Git
- Competitive Programming, Android / Web Development, Machine Learning, Computer Networking, Chatbots, Web Scraping and Crawling

## KEY PROJECTS

### Live Twitter Sentiment Analysis

Summer '17

- Developed a sentiment analysis module using the Natural Language Toolkit (NLTK).
- Used voting method involving algorithms like Naive Bayes Classifier, Multinomial Naive Bayes Classifier, Stochastic Gradient Descent, Bernoulli Naive Bayes to make a custom classifier with accuracy about 85%.
- Used the Twitter Streaming API to get live tweets on a topic and plot a real time graph of sentiment value of the tweet using Matplotlib.

### RemindMe FB Messenger Chatbot

Summer '17

- Created a Reminder Chatbot for the Facebook Messenger Platform, coded up entirely in Node.js.
- Added Natural Language Understanding to the bot by using the services of WIT.AI.
- Also used the non-relational MongoDB to temporarily store reminders of different users until the reminding time after which the reminder is removed from the database.

### GeoPhotos Webapp

Summer '17

- Created a web application in Django to search and display the Instagram photos uploaded around the world, based on location with real time auto updation of list.
- Used the Google Maps API to convert given location to latitude and longitude and used the Instagram Media API to get images for that location and display on the webapp.

## RemindMe Android App

Winter '16

- Created a basic Reminder application in Android Studio capable of reading the reminder from the user and displaying it in the notification bar of the phone.
- Added features to repeat the notification after a specific time interval and also to add a deadline for the notification.

## OtherProjects

- **WeatherBot:** Created a rule based chatbot with command line interface (CLI) to display current as well as future weather forecast for a place. It uses the Yahoo Weather API to get weather information.
- **Pong:** Programmed a simplified version of the classic game Pong in Python using the SimpleGUI library.

## KEY COURSES ---

### Curriculum

- Computer Programming, Data Structures & Algorithms, Information Technology Workshop (I & II), Computer Systems Organisation, Calculus, Linear Algebra, Discrete Maths.

### Extra Courses

- Developing Android Apps (Udacity), Interactive Programming using Python (Coursera), JavaScript (Codecademy), CompTia Network+ Training (Cybrary), Develop Incredible Chatbots (Udemy), Intro to Machine Learning (Coursera).

## EXTRACURRICULARS ---

- Bagged **4<sup>th</sup> position** and the **1<sup>st</sup> position in Novelty** at the Inter IIT Tech Meet 2017, held at IIT Kanpur in the event “Dashboard”. It was a web development event where we had to build an open source, accessible resource host which could serve as a one stop destination for the students of the college for all relevant information like – timetable, campus events calendar, course reviews, academic resources.