

# SAURABH KUMAR SINGH

(+91) 7379-035-994

[saurabhk.singh.cse16@itbhu.ac.in](mailto:saurabhk.singh.cse16@itbhu.ac.in)

<https://github.com/Saurabh303>

## OBJECTIVE

Looking for a research opportunity in Deep Learning with applications in Image Processing/Computer Vision with aim to develop and prove my research aptitude and a goal to step in the AI world.

## EDUCATION

**Indian Institute of Technology (BHU), Varanasi**

**July 2016 – Current**

B. Tech. in Computer Science and Engineering (Current CGPA: 9.68)

Semester	I	II	III	IV	V	VI	VII	VIII
SGPA	9.72	9.75	9.59	ongoing	NA	NA	NA	NA
CGPA	9.73		9.68		NA		NA	

**Diwan Chand Arya Senior Secondary School**

**2015**

All India Senior School Certificate Examination (Percentage: 94.00%)

**Diwan Chand Arya Senior Secondary School**

**2013**

All India Secondary School Examination (CGPA: 10.00)

## TECHNICAL SKILLS AND INTERESTS

- Languages: C/C++, Python, Java, SQL, JavaScript, HTML, CSS, SASS, XML, Shell Scripting (Bash)
- Tools/Packages: Matlab, GNU Octave, OpenCV, React.js, Node.js, Django, Flask, Git
- Platforms: Linux, Windows, Android
- Areas of Interest: Image Processing, Computer Vision, Deep Learning, Machine Learning, Data Structures and Algorithms, Competitive Programming, Web Development, Web Scraping/Crawling

## PROJECTS

**Exploratory Project (Image Processing)**

**December'17 - Current**

- Study and implementation of Image Registration, Enhancement, and Segmentation Techniques.
- Exposure: skimage, OpenCV, Numpy
- Under *Prof. Pratik Chattopadhyay, IIT(BHU)*

**COPS Web App**

**December'17 - Current**

- Building a web app for Club of Programmers (COPS) of IIT(BHU) using React, Node Express etc.
- A fully responsive app for helping our college students interact with the club and delivering information to them to a greater extent. Till now, the frontend part has been done and backend part job is going on.
- Exposure: React.js, Node.js, Webpacks, npm

**WorldLink**

**August'17 - November'17**

- Created a Social Networking Website/Web app named 'WorldLink' using Django.

- Includes features like user authentication, news feed/blog posts, adding/deleting posts, like/comment on posts, messaging/broadcasting among users, searching users, following users, notifications, atom/RSS feed, meme generator for creating memes and posting them etc.
- Exposure: python, django, SQL
- Under *Prof. Amrita Chaturvedi, IIT(BHU)*

### **Convolutional Neural Network for Car Recognition**

- Used Keras to implement a car recognition system using deep learning.
- Implemented CNN to achieve over 95% accuracy on test data.
- Exposure: Keras, tensorflow

### **WeatherQuery**

- An app which gives temperature of a particular location on the basis of zipcode/city.
- Exposure: Flask, openweathermap API

### **GeolocationFinder**

- An app which gives the exact geolocation of given addresses in a database in .csv format.
- Exposure: geopy, googlemaps API

## **COURSES**

- Curriculum: Computer Programming, Engineering Mathematics (I & II), Data Structures, Information Technology Workshop (I & II), Probability & Statistics, Discrete Mathematics, Computer System Organization, Mathematical Methods, Operating Systems, Artificial Intelligence, Algorithms.
- Other Courses: Machine Learning (Coursera), Intro to Machine Learning (Udacity), Deep Learning Specialization (Coursera), Python (Codecademy), Intro to Relational Databases (Udacity).

## **ACHIEVEMENTS**

- Secured an All India Rank - 500 (top 0.33%) among 0.15 million candidates in IIT JEE(Advanced), 2016 who were selected out of around 1.5 million candidates and henceforth got admission into Computer Science and Engineering Department of Indian Institute of Technology (BHU), Varanasi.
- Obtained 99.93 percentile in JEE Mains 2016 among 1.5 million candidates.

## **PERSONAL INFORMATION**

Father: Nawal Kishor Singh  
Gender: Male  
Nationality: Indian

Mother: Kiran Singh  
Date of Birth: 06/12/1998  
Languages: English, Hindi