

EDUCATION:

Indian Institute of Technology (BHU), Varanasi

July 2013 - Current

- B. Tech in Electrical Engineering (Current CGPA : 8.69)

Semester	I	II	III	IV
SGPA	7.53	8.34	9.23	9.48
YGPA	7.93		9.36	

Vidyasagar School , Indore

2013

- XII, CBSE Percentage - 93.2%

Vidyasagar School , Indore

2011

- X, CBSE CGPA – 10/10

SKILLS AND INTERESTS

- Languages:** Java, Matlab, C (Limited Proficiency) and MySQL
- Libraries & Software:** JavaCV, Eclipse
- Areas of Interest:** Data Structures, Algorithms, Machine Learning, Data Mining, Image Processing.

KEY COURSES ATTEMPTED

- Data Structures and Algorithms by Dr. Naveen Garg , IIT Delhi
- Machine Learning course by Prof. Andrew Ng , Stanford University
- Currently attempting course on Operating Systems by Prof. John Kubiawicz , U.C. Berkeley

RESEARCH EXPERIENCE

- Economically Efficient Sentiment Stream Analysis of Twitter.** 19 May – 20 Jul '15
Mentor: Dr. Ravindranath Chowdary C, Assistant Professor, Computer Science Department, IIT (BHU) Varanasi.

Proposed and implemented Sort and Union algorithm in Java that modifies the two state of art algorithms namely, Pareto and Kaldor-Hicks selective sampling algorithms used in sentiment stream analysis of Twitter, resulting up to **3.5% and 21% improvement in time** efficiency and **4.2% and 5.4% gain in prediction performance** in the respective algorithms.

The proposed draft has been accepted as a Poster Paper to be published as a two-page extended abstract in proceedings of **ACM India SIGKDD Conference on Data Sciences**, Pune on 13th-16th March 2016.

ACADEMIC PROJECTS

Face detection by PCA and Artificial Neural Network	Categorized a sample set of photos of different persons into group of photos belonging to the same person by Principle Component Analysis Algorithm and concepts of Artificial Neural Networks.
Operating a basic calculator using hand gestures	Segmented bare hand from real time input images and translated hand gestures to numbers and operators using concepts of Machine Learning & Neural Networks to feed input to the calculator.
Voice Interface for Google Maps	Integrated Google Maps API with voice commands for basic searches in a web application.
Virtual mouse control using JavaCV	Controlled mouse actions and cursor motion by hand gestures using wearable color strips on fingers, platform used was JavaCV.
Writing on screen by moving hand in front of it	Segmented an object by using concepts of Image Processing in Matlab, then traced its path in real time and segmented the letters formed by tracing.

SCHOLASTIC ACHIEVEMENTS

- Secured **AIR – 1985** in the **JEE Advanced** Examination 2013.
- Secured **AIR – 2020** in the **JEE Mains** Examination 2013.
- **Winner in Technex** 2014, techno-management fest of IIT BHU Varanasi in the event Resonato.
- **Runner up in Prastuti** 2015, technical fest of Electrical Engineering, IIT BHU in the event Recognizance.
- Successfully completed course in **core Java** in 2014 summers.
- Secured **AIR – 317** in Kishore Vaigyanik Protsahan Yojana (**KVPY**) organized by IISc Bangalore in 2012.
- **School Vice-Captain** of Vidyasagar School, Indore in academic session 2011-12.

EXTRA -CURRICULAR ACTIVITIES/ACHIEVEMENTS

- **Gold medalist** in Inter Hostel Badminton Tournament, 2015 of IIT BHU.
- Participated in code-4-2day in Udyam 2015, technical fest of Electronics branch of IIT BHU.
- **Coordinator of Badminton Tournament** in Spardha 2014, Annual Sports fest of IIT BHU.
- Participated in Mosaic an image processing event in Aayam 2014, technical fest of Electronics branch.
- Participated in Robotics events based on image processing and aero-modeling events in Technex 2014, techno-management fest of IIT BHU Varanasi.

PERSONAL INFORMATION

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| ▪ Father: Mr. Naveen Prakash Goel | ▪ Mother: Mrs. Anita Goel |
| ▪ Gender: Male | ▪ Date of Birth: 11 July, 1995 |
| ▪ Nationality: Indian | ▪ Languages: English, Hindi |
| ▪ Permanent Address: 25, Shree Mangal Estate,
Mangal nagar , Indore ,MP | |