

# HIMANI SHARMA

MT17014, Email: [himani17014@iiitd.ac.in](mailto:himani17014@iiitd.ac.in)

DOB: September 19, 1995

Address: B-121, Patel Garden, Dwarka Mor, New Delhi-59



## Education

<b>Indraprastha Institute of Information Technology Delhi</b> M.Tech(CSE) 2017 – Present	CGPA: 7.54
<b>Kalindi College, Delhi University</b> B.Tech(CSE) 2013 – 2017	Percentage: 80.2
<b>VVDAV Public School, New Delhi</b> CBSE 2012 – 2013	Percentage: 87.8
<b>VVDAV Public School, New Delhi</b> CBSE 2010 – 2011	CGPA: 9.6

## Skills

<b>Area of Interest</b>	Machine Learning, Collaborative Filtering, Operating Systems, Information Retrieval, Natural Language Processing, Data Mining
<b>Programming Language</b>	Python, Java, C, C++, SQL
<b>Tools and Technologies</b>	SciPy, scikit-learn, Tensorflow, Android studio, Latex, nltk, Bootstrap studio
<b>Technical Electives</b>	Machine Learning, Collaborative Filtering, Information Retrieval, Mobile Computing, OOPD, Mobile Computing, NLP, Data Mining

## Internship

<b>Teaching Assistant(TA) IIITD</b> • <b>Discrete Mathematics</b> Guide: Prof. Donghoon Chang <ul style="list-style-type: none"><li>Conducted tutorials for class size of 30</li><li>Prepared assignments</li><li>Helped instructor in evaluation for the course</li></ul>	(Aug'17 – Dec'17) Team size – 2
<b>Partiko Services Private Limited</b> • 3-week internship in <b>Digital Marketing</b>	(Dec 1'15 – Dec 20'15)

## Projects

<b>Facial Expression Recognition</b> Guide: Prof. Saket Anand <ul style="list-style-type: none"><li>Extracted the fiducial points from the faces which were used as features for classification.</li><li>Given these fiducial points, classified the expressions as happy, sad, Angry, disgust etc. using SVM, Logistic Regression and Decision Trees.</li></ul>	( Aug'17– Dec'17) Team Size-3
---	----------------------------------

### **Question Answering System**

(Aug'18 - Dec'18)

Guide: Prof. Tanmoy Chakraborty

- Worked on SQuAD dataset and developed a Question Answering system that could give an answer to a question from a given paragraph using word2vec, doc2vec, dependency structures and some similarity based methods.

### **Context Sensitive Spell Correction for OCR predicted text**

( Jan'18- Apr'17)

Guide: Prof. Tanmoy Chakraborty

Team Size-2

- OCR predicted text isn't 100% accurate. Thus corrected the spelling mistakes based on text context using Edit Distance, N-grams and Sequence to Sequence Model using Recurrent Neural Networks.

### **Virtual I - A Medicine Detecting App for Blind**

( Jan'18- Apr'18)

Guide: Prof. Pushpendra Singh

Team Size-6

- Made medicine detection app that uses live OCR to find the medicine name and its corresponding information from a medicine packet. Also used static OCR and openCV to click picture of printed prescription and save its text.
- Blind person can make and save voice notes and set reminders for the medicine.
- An explicit search option is also provided along with speech to text feature that retrieves the information of that medicine.

### **Survey on Facial Feature Extraction Techniques**

(Jan'18 - Apr'18)

Guide: Prof. Anubha Gupta

Team size - 1

### **News Headlines Clustering**

(Aug'18 - Dec'18)

Guide: Dr. Sumit Bhatia

- The project aims to cluster the news articles according to different domains like Sports, Bollywood, Lifestyle, Technology, International etc. using various techniques like word2vec and doc2vec with k-means and agglomerative clustering

### **ALUMNECT - An Alumni portal for IIITD alumni**

(Jan'18- Apr'18)

Guide: Prof. Ponnurangam Kumarguru

Team Size-6

- Used bootstrap studio and PHP to make a portal for IIITD alumni.
- Incorporated various HCI components.
- Used Google API to plot the alumni density around the world by using markers.

### **Facility Management System**

(Aug'17- Dec'17)

Guide: Prof. Chetan Arora

Team Size-2

- Facebook based portal provides various services to the residents of IIITD

### **Survey on Diversity in Recommender System**

(Aug'17- Dec'17)

Guide: Prof. Angshul Majumdar

Team Size-2

### **Book Recommendation System Using Opinion Mining**

(Jan 2017)

- Made basic recommendation system, that recommended top 5 books to users in a given discipline

### **Positions of Responsibility**

- Teaching Assistant(TA) IIITD (Aug'17 - Dec'17)
- Organizing Team for Oddysey'17 (Oct'17 - Feb'18)
- Editorial team for semi-annual E-newsletter of CSE dept, Kalindi College. (Jan'16 - May'16)
- Organizing Team for Physcom Society's Inter College Fest, TECHNOWAVE'16, Kalindi College (2016)

- Member of Leaders For Tomorrow, a non-profit youth movement (2016)

### Awards and Achievements

- **Campus Ambassador** for NSIT's annual cultural and technical fest MOKSHA'15 and INNOVISSION'15 respectively.
- **Campus Ambassador** of "RANBHOOMI'15" the annual sports meet of College Of Vocational Studies
- Secured **II** prize in **On the spot Painting Competition** organized by SRCC's Art Society
- **Subject Topper in English** in CBSE Board Examination at VVDAV Public School in academic year 2012-13
- Participated in **Amateur Astronomer Program** held by Astronomy Study Training & Research Org. in year 2008-09

### Interests and Hobbies

- Rubik's Cube
- Painting and Sketching
- Playing Badminton
- Singing

Declaration: The above information is correct to the best of my knowledge.

Himani Sharma

Date: November 14, 2017