

# DEEPANSH AGRAWAL

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## OBJECTIVE

- Looking forward to work in an environment where I can contribute to the organization with the help of my skills and abilities and gain experience and enhance my knowledge through the process.

## EDUCATION

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

July 2016 – Current

- IDD (B. Tech + M. Tech) in Computer Science and Engineering (Current CGPA: 8.68)

Semester	I	II	III	IV	V	VI
SGPA	7.93	8.82	8.98	8.88	8.42	9.02
CGPA	8.68					

### Adarsh Public Senior Secondary School, Bhopal, M.P.

2016

- Madhya Pradesh Senior Board of Examination (Percentage: 87.20 %)

### Sagar Public School, Bhopal, M.P.

2014

- Central Board of Senior Education (CGPA: 10.00)

## SKILLS AND INTERESTS

- Languages: C++, C, Python, HTML/CSS/Bootstrap, Bash, Java, SQL.
- Technologies: Django, Android Studio, MySQL, Unity.
- Areas of Interest: Data Structure, Artificial Intelligence (NLP), Algorithms, Operating Systems, Information Extraction, NLP.

## TECHNICAL EXPERIENCE

### Internship

GE Healthcare

May 2019- July 2019

#### Project: Implementing AppSec over GE Healthcare Device-Enterprise Network

- Enhanced security of sensitive patient data being transferred through UDP protocol by applying Encryption.
- Created separate virtual Interface for both read and write socket.
- Assessed the performance of applied algorithms and solved the challenges associated.

**Exposure:** MACsec, AppSec, Cryptography

## PROJECTS

### Quality Estimation

January 2019-Present

*B.Tech Project- (Under the guidance of Dr. Anil Kumar Singh)*

- The aim is to develop a model that can predict the quality of machine translated text without using References.
- Merged the features extracted by QuEst and fed it into a state-of-the-art bidirectional RNN based Encoder-Decoder model along with attention mechanism for the Quality Estimation of low resource language.

**Exposure:** LDA, Topic Models, Data Annotation, Pointwise mutual Information(PMI)

### Structuring an Unordered Text Document

May 2018- August 2018

*Research Project- (Under the guidance of Dr. Ravindranath Chowdary C.)*

- The project involved the task of structuring an unordered document by first identifying the underlying sections in the document and then forming clusters of sentences based on their relevance to the sections.
- Implemented using different keyword extraction algorithms, Google news word embeddings, etc.
- Testing done on 500 documents from the Wikipedia dump.

**Exposure:** NLTK, Word2vec, NumPy, Skip Gram Model, Term frequency-Inverse Document frequency.

## Sentiment Analysis over Twitter dataset

September 2018-November 2018

*Data Mining Project- (Under the guidance of Dr. B. Biswas.)*

- Each tweet from dataset is processed to find its sentimental group. Tweet is classified into five categories.
- Sentiment is predicted using three different algorithms namely Support Vector Machine, Naïve Bayes and by developing a model using Deep Neural network.
- Results from these algorithms are then compared.

**Exposure:** TensorFlow, NLTK, Naïve Bayes

## Online Trading Portal

July 2018-September 2018

*Web Development Project- (Under the guidance of Dr. Ravindranath Chowdary C.)*

- Developed a Web application on Spring MVC.
- It offers separate log in for three separate class of user's customers, admin and the suppliers.
- Customers can put up some request for some goods with the delivery location they require.
- Application also stores the salary record of employees and the pending amount to be given.
- Admin can grant the goods requests and sell them accordingly.
- Admin can also manage the stock of goods available in different warehouses.

**Exposure:** Spring MVC, MySQL, Query Optimization, HTML

## Development Projects

March 2017-November 2017

- Developed a Web Application- SelfLife in Python's Django Web Framework.
- Website for social networking in which had functionality of making friends, posting status containing songs, videos and textual messages.
- Developed an Android Application on Android Studio Framework which provided user the service of ordering a coffee via E-mail.
- Parallely developed a sister application which supported the Database feature and stored information about all entries and available goods
- Developed a primitive game-Roll the Ball on Unity Framework.
- Real-World Interface provided in Game i.e factors like Gravity and Collisions present.

**Exposure:** Django framework, CSS, XML, Android Studio, Java, Unity.

## ACHIEVEMENTS / EXTRA CURRICULAR ACTIVITIES

- IIT JEE 2016- Achieved AIR 782
- Team came 2nd in a codechef All-India online contest.
- Part of Google Developers Group IIT BHU.
- Part of ML Reading Group IIT BHU.
- Participated in Microsoft Code.fun.do held in year 2017(Game submitted) and 2018(Weather-Forecasting Android Application).
- Participated in Robotron event and made a robot which had flappers and controlled by Mobile phone and which played football.
- Interest in playing football and Counterstrike GO.

## PERSONAL INFORMATION

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|---|----------------------------|
| ▪ Father: Brij Mohan Agrawal  | ▪ Mother: Renu Agrawal     |
| ▪ Gender: Male  | ▪ Date of Birth: 14/04/99  |
| ▪ Nationality: Indian   | ▪ Language: Hindi, English |
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