

# DEEPANSH AGRAWAL

## ACADEMIC PROFILE

Degree/Certificate		Institution					Percentage/CGPA	Year	
IDD		Computer Science and Engineering IIT (BHU), Varanasi					8.84	2021	
Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII	Sem IX	Sem X
7.93	8.82	8.98	8.88	8.42	9.02	9.47	9.34	-	-
M.P. Board (XII)		Adarsh Public School					87.20	2016	
C.B.S.E (X)		Sagar Public School					95.00	2014	

## SKILLS

### Programming Languages

C, C++, Python, HTML, SQL

### Technologies/ Libraries

Android Studio, Spring MVC, Django, MySQL, CSS/Bootstrap, Pandas, NumPy, Dask, Word2Vec, Tensorflow

### Areas of Interest

Data Structures and Algorithms, Operating Systems, Artificial Intelligence, Information Extraction, Computer Networks

## INTERNSHIP/TRAINING

### Smart Statistical Diff widget

Apr 2020 - Jun 2020

*DE Shaw (Hyderabad)*

- Developed a software which could do comparative analysis between two or more datasets based on the key and non-key columns present in them.
- The developed software was generic and scalable enough that datasets with various formats and of varying sizes could be compared with no tweaking required.
- Parallelization techniques were used to enhance the performance and enable parallelized computation at several cluster machines.
- Exposure:** Pandas, Dask, Task manager, VDOM elements

### AppSec over GE Healthcare's Device-Enterprise Network

May 2019 - Jul 2019

*GE Healthcare (Bangalore)*

- Enhanced security of sensitive patient data being transferred through UDP protocol by encrypting the data blocks.
- Assessed the performance of applied algorithms and solved the associated challenges by trying out different encryption techniques.
- Exposure:** MACsec, AppSec, Cryptography

## PROJECTS

### Quality Estimation

Jan 2019 - Apr 2019

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

- Developed a model that could predict the quality of machine translated text without the use of references.
- Merged the features extracted by QuEst and fed it into the state-of-the-art RNN based Encoder-Decoder model along with attention mechanism for the quality estimation of low resource languages.
- Exposure:** Neural Machine Translation, Feature Selection, Attention Mechanism, Encoder-Decoder

### Structuring an Unordered Text Document

Feb 2018 - Aug 2018

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

- Structured 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.
- Several versions of model were implemented using different keyword extraction algorithms, Google news word embedding, KEA, etc.
- Exposure:** Word2vec, NumPy, Skip Gram Model, Term frequency-Inverse Document frequency

### Online Trading Portal

Jul 2018 - Sept 2018

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

- Developed a Web application on Spring MVC which facilitated trading and offered separate log in for three class of user's namely customers, admin and the suppliers.
- Customers could put up some request for some goods with the delivery location they require and admin could then grant the goods requests and supply them accordingly.
- Exposure:** Spring MVC, MySQL, Query Optimization, HTML

## Development Projects

Mar 2017 - Nov 2017

- Developed a Web Application- SelfLife in Python's Django Web framework, for social networking which had the 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 was provided in the game i.e factors like Gravity and Collisions were considered.
- **Exposure:** Django framework, CSS, XML, Android Studio, Java, Unity.

## POSITION OF RESPONSIBILITY

- Member of Publicity team of Codefest 2018
- Member of Publicity team of Technex 2017.

## HONOURS AND ACHIEVEMENTS

- Secured **All India Rank 782** in JEE Advanced 2016
- Obtained a **percentile of 98.83** among 1.2 million candidates in **JEE Mains 2016**.
- **Second Position** in Hackathon event of Codefest 2018.
- Obtained **1786** rank in the final round of **5th International Mathematics Olympiad**.
- Secured **fifth position** in a team contest (Deadline24-2016 Qualifying Round) conducted on Codechef.

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