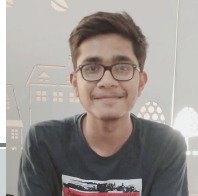


DEEPANSH AGRAWAL



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

Full Stack Utilities/ Libraries

Django, Android Studio, CSS/Bootstrap, Pandas, Dask, NumPy

Areas of Interest

Data Structures and Algorithms, Operating Systems, Artificial Intelligence

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 and simplified the operations by creating separate virtual interface for both read and write sockets.
- Assessed the performance of applied algorithms and solved the challenges associated with performance 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

Sentiment Analysis

Sept 2018 - Nov 2018

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

- Processed every tweet from twitter dataset to find the sentimental group it belonged to among the five categories, ranging from 1 to 5 on the scale of positivity.
- Sentiment prediction was done using three different algorithms namely Support Vector Machine, Naïve Bayes and through a model developed using Deep Neural network.
- Comparative analysis of the results obtained from all these three algorithms was done to analyse the use cases of each of them.
- **Exposure:** TensorFlow, NLTK, Naïve Bayes

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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