Somyaa Aggarwal

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EDUCATION

Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi
B.Tech. (Computer Science and Engineering, currently in 6th semester) **Percentage: 81% (Till 6th semester)**

Apeejay School, Pitampura, New Delhi **Percentage: 94.6%** 2014
XII (CBSE)

Apeejay School, Pitampura, New Delhi **CGPA: 10** 2012
X (CBSE)

Indian Institute of Science, Department of Computer Science and Automation (IISc, CSA)
6th CSA Summer School, 2018 Attendee July 2018
Selected among top 87 participants from 500+ applicants from across the country after an exhaustive selection procedure including personal interviews. Attended talks, demos, and hands-on sessions by the institute faculty, research scholars and industry experts covering theoretical and applied aspects of computer science.

EXPERIENCE

- **Defence Research and Development Organization(DRDO)**
  Research Intern at Laser Science and Technology Centre (LASTEC) Jul 2018-Present
  Currently working on the problem of Night Image Enhancement.

- **National University of Singapore (NUS)**
  Academic Intern as part of Global Academic Internship Programme Jun 2018
  Undertook training in Big Data and Hadoop System Administration by Hewlett-Packard Enterprises (Singapore) in collaboration with Corporate Gurukul. Attended programme on Big Data Analytics using Artificial Neural Networks by Strategic Technology Management Institute, School of Computing under the guidance of Dr. Hsiang Hui and Dr. Hoang D. Nguyen. Completed a project on H1-B Visa Prediction using Machine Learning algorithms.

- **Indira Gandhi Delhi Technical University for Women (IGDTUW)**
  Undergrad Research Assistant Aug 2017-Dec 2017
  Conducted a comparative study on the various web information retrieval techniques and presented the research paper titled 'Investigation of Web Information Retrieval Techniques' in INDIACom-2018; Computing for Nation Development which has Been accepted for publication in IEEE Xplore under the guidance of Dr. Devendra Tayal.

PROJECTS

Sign language detection using Machine Learning models
This project builds a model to detect sign language using a dataset from UCI repository. Neural Network and KNN algorithm was implemented for classification of sign language symbols. Accuracy of 97.9% and 92.5% were attained respectively.

Automatic Summarization of Medical Documents
Automatic Extractive Summarization of a single medical document using layers of Restricted Boltzmann Machine for enhancement of features to score the sentences for summarization. This project was implemented in Python using Numpy, Scipy, NLTK and Theano.

TECHNICAL SKILLS

- **Programming Languages:** C++, Python
- **Framework:** Apache Hadoop (Basic)
- **Web Development Languages:** CSS3, HTML5
- **OS:** Windows, Ubuntu

ACHIEVEMENTS

- Participated in World Food India Hackathon 2017 in a team of members. Our team got shortlisted for the top 16 teams among the 169 teams that participated in the country. We were specifically appreciated for our research efforts and were recognized by industry experts
- Merit Certificate Holder for **seven** consecutive years, top 5% of batch (2008-2014)
- CBSE Merit Certificate Holder for perfect GPA **(10/10)** for Class X