MANSI AGARWAL

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EDUCATIONAL QUALIFICATIONS

Year	Degree/Certificate	Institute	%/CGPA
2016-Present	B.Tech in Computer Science and Engineering	Delhi Technological University(formerly DCE)	9.32
2015-2016	Senior Secondary, CBSE	D.P.S, R.K. Puram	96.2%
2013-2014	Secondary, CBSE	D.P.S, Siliguri	10.0 CGPA

INTERNSHIPS

• **National University of Singapore (NUS)** – - Training programme on 'Data Analytics using Artificial Neural Networks' - Lectures on Machine Learning by Dr. Tan Wee Kek - Lectures on Deep Learning by Dr. Wei Wang - Topped the quizzes held after every session - Implemented a Sentiment analyser using ANN and Non-ANN methods where an organisation can enter its customer's reviews and the model returns whether the review is positive, negative or neutral. This data can be utilised by the organisation to improve its performance and customer satisfaction levels. https://github.com/MansiAgarwal11/Sentiment-Analyser	June 2018
• **Hewlett-Packard Enterprise (HPE) at NUS, Singapore** – - Training programme on Big Data Analytics and Hadoop System Administration - Hands on experience of setting up Hadoop clusters	June 2018
•**Prayogshala in collaboration with Teach for India(TFI)** – - Taught the practical aspects of science using electric, magnetic and hydraulic kits to a class of fifty female students belonging to a small government school in Kalkaji, Delhi under the mentorship of TFI fellow, Ms. Ruchi Anand - Visited the slums of Seelampur, Delhi to acknowledge the current state of education in the less-privileged areas and emphasised on how science could help uplift the poorer sections of the society, and the nation as a whole - Part of the Digital team.	August 2016- December 2016

PROJECTS AND RESEARCH PAPERS

Project on VQA-Visual Question Answering using Computer Vision and Natural Language Processing for the blind
(January 2018 – Present)
Currently working on a project on VQA under Mr. Rajesh Rohilla (Associate Department of Electronics and Communication Engineering, DTU) and implementing it on an Android application for helping the blind people.

Research Paper : Detecting Intrusive Activities in Database systems using Machine Learning
(August 2017 – Present)
Currently working on a research paper on Detection of Database Intrusion under Ms. Indu Singh (Assistant Professor, Department of Computer Science and Engineering, DTU). The approach involves forming user role profiles, based on the access pattern of the users (data mining). These profiles are used to train the Intrusion detection system and hence predicts whether a transaction is malicious or not, using a hybrid of machine learning algorithms.

Dog Breed Identification
(July 2018- Present)
Created a model using ConvNets and Transfer Learning which helps in the prediction of the breed of a dog via its image.

Titanic-Machine Learning from Disaster
(July 2018)
Using the tools of Machine Learning and Neural Networks, created a model to predict which passengers survived the tragedy of Titanic.

SpyChat : Python based chat application
(October 2017)
Implemented terminal based messaging application named "SpyChat" using Python 2.x. The application is created for spies and helps in encoding a message into an image and sending it to another person, where it is decoded to receive the secret message using the Steganography module.

IMPORTANT COURSES AND SKILLS

- **Computer Skills** : Proficient at **C, C++, Python, SQL, Hadoop, Cloudera**
- **Courses** : Data Structures, Algorithm Design and Analysis, Digital and Analog Design, Computer Architecture, Operating Systems, Database Management Systems, Object Oriented Programming, **Data Mining, Database Security ,Pattern Mining**
- **Machine learning** :
  - **Andrew Ng** Online Course.
  - **Nando De Freitas UBC** online course.
  - Implementation of all Machine Learning Algorithms in **Python**(Online course at Udemy).
  - Training models for image classification using **Tensorflow, Keras** (Python)
  - Computer Vision:
    - **CS231n Stanford** course on Computer Vision by **Fei Fei Li**
    - **Fundamentals** of **Computer Vision – Mubarak Shah**
- **Non-Technical :** Team player, Problem Solver, Orator, Perfectionist.
- **Languages** : **English**(fluent), **French**(read and write), Hindi

ACADEMIC AND CO-CURRICULAR ACHIEVEMENTS

-**Ranks** amongst the **top 4%** students among about 350 students in the entire **Computer Science and Engineering Department.**	2018
-**Department Rank - 3** in **Semester 4**	2018
-Awarded with a **gold medal** for **excellent academic results** throughout schooling	2016
-Held **1st rank** (school level) and **2nd rank** (city wide) at the **13th National Science Olympiad**	2011

POSITIONS OF RESPONSIBILTY

Hostel Head Girl at D.P.S. R.K.Puram (batch 2015-16)

Active member of Society of Robotics-DTU (2016-Present)

Public Relations Team – Aahvaan, DTU (2017)
The first ever sports festival of the college saw an immense success with a great PR team.

EXTRA-CURRICULAR ACTIVITIES

-National Level Swimmer (2011): Represented Delhi Public School, Siliguri for the **inter-DPS Nationals.**

-Won several **debates** held in around the city of Siliguri.

-Hold a degree of **Art and Painting**.