MIHIR AHLAWAT

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EDUCATION

B.Tech in Mathematics and Computing	2016-present	Delhi Technological University	7.87 CGPA
CBSE (Class XII)	2016	Montfort Sr. Sec. School, Delhi	85.8%
CBSE (Class X)	2014	Montfort Sr. Sec. School, Delhi	9.4 CGPA

INTERSHIPS

Data Science Intern at Career Launcher   **June 2019 - July 2019**
- Designed and programmed a statistical machine learning model using user based collaborative filtering and exploratory data analysis to build a real-time adaptive question recommendation engine
- Built a machine learning model in python using the leads generated from users' online activities by rigorous data cleaning and extracting relevant features to predict the future probable customers

Intern at Dean Student Welfare, Delhi University   **June 2018 - July 2018**
- A part of the core team of Delhi University admission process, under Deputy Dean, Dr. Gurpreet Singh Tuteja
- Organised and explored the collected registration data, and made scripts in R to calculate the Best of Four(BoF) percentage for various courses and a course allotment script based on BoF percentage and availabilty of seats
- Tools used - RStudio and MS Excel

PROJECTS AND HACKATHONS

Finalist in Smart India Hackathon 2019 – Team Six Nearest Neighbors, For AM2, Goldman Sachs
- Rain Water Harvesting optimisation using Operation Research techniques
- RWHOpt is an underground water tank location optimizer which makes use of transshipment model to find the optimal location(s) and capacity of water tank(s) to be placed in the city, provided housing data, catchments, stability and (x,y) coordinates of houses

Academic project on Database Management System
- Built a GUI application on Fire Station database management in python using PyQt for the front-end and MySql for the back-end. Python libraries used – PyQt5, pymysql

Sentiment Analysis of Tweets using LSTMs and CNNs
- Implemented a State of the art research paper(2017) to predict the sentiment of the tweets using LSTMs and CNNs.
- For word embeddings, pre-trained Global Vectors for Word Representation(GloVe) were used

POSITIONS OF RESPONSIBILITY

Vice President - Operations, Society for Industrial and Applied Mathematics, DTU   **Aug 2018 – present**
- Worked as the Head of Publicity of the society during August 2017 – August 2018
- Event Head for "Financial Cricket" under EVOLUTE'18 (Annual Mathematics fest of DTU)

Director of Club Services, Rotaract Club Ashoka, Delhi   **Sep 2017 – present**
- In the organizing team of 3 successful blood donation camps collecting a total of 150 units. Participated in various social service and donation drives

ACHEIVEMENTS AND EXTRA-CURRICULAR ACTIVITIES

- Qualified for Google Code Jam'18
- Ranked 145 in Junior Science Talent Search Examination'2012-13
- Top 1%ile in PSA 2014 (Quantitative Reasoning)
- Represented school in football tournaments at Inter Zonal level

SKILLS AND COURSEWORK

- Programming languages – C/C++, Python, R
- RStudio, Jupyter, MS Excel, MATLAB, SPSS
- Libraries – Python - numpy, pandas, matplotlib, seaborn, scikit-learn, keras || R - dplyr, ggplot2
- Linear Algebra, Probability and Statistics, Stochastic Processes, Scientific Computing, Operations Research, Theory of Computation, Financial Engineering

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.