Devansh Messon

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Engaged researcher, analyst with a strong foundation in real-life problem solving through data structures and algorithms.Seeking to leverage exemplary analytical and coding skills as a programmer for a product based company.

EDUCATION

University of Petroleum and Energy Studies(UPES)	Dehradun, India
BTech - CSE (Business Analytics and Optimization), 8.26/10.0 CGPA (till 5th semster)	*June 2018 - present*
New Era Public School (12th)	New Delhi, India
CBSE board, 8.36/10.0 CGPA	*April 2017 – May 2018*
New Era Public School(10th)	New Delhi, India
CBSE board, 9.0/10.0 CGPA	*April 2015 – May 2016*

INTERNSHIP AND PROJECTS

Ambulance Navigation System | *C language, Data structures and algorithms*   Sept 2020 – Nov 2020

- Quickly suggested the shortest path to an ambulance to reach one or more patient's place sooner to save a life.
- Improved the execution time from 37 seconds to **3 milliseconds** to process a dense graph having 10^5 nodes and 10^6 edges.
- Improved the execution time from 58 seconds to **6 seconds** to visit 13 patients at once which may leed to save a life.
- Implemented Bi-directional Dijkstra algorithm and Genetic algorithm to improve the execution times(stated above).
- View Project - github.com/devanshmesson/Ambulance-Navigation-System

Stock Market Prediction System | *Python,Machine Learning*   Jan 2020 - Feb 2020

- Developed a Tkinter based Graphical user interface which predicts the future stock price of a company.
- Achieved accuracy of **89%** by training a Long Short Term Memory neural network on stock prizes having a 30 years range.
- Performed Sentimental analysis through vaderSentiment on real-time news headlines fetched through News API.
- View Project - github.com/devanshmesson/Stock-Market-Prediction-System

Internship (2 months) | *Defence Research and Development Organisation(DRDO)*   June 2019 – July 2019

- Developed a basic chemical agent dispersion model by simulating a Gaussian dispersion equation on MATLAB R2018a.
- Visualized the model on any location on the Indian map by clicking on that particular location.
- Fetched longitude and latitude by clicking anywhere on the Indian map.
- Demonstrated the estimation of the downwind ambient concentration of toxins emitted from various sources by colour variance.
- View Project - https://github.com/devanshmesson/Dispersion-Model

ACHIEVEMENTS

- Bagged 2nd position out of **110** teams in Hackathon 4.0 organized by UPES-CSI student chapter and I got **featured** on my university's official website for this achievement.
- Submitted a research paper entitled "Comparative Study Of Various Approaches Of Dijkstra Algorithm" which got accepted in the ICCCIS-2021 IEEE Conference(Publication is in process)
- Got selected among top 3 best minor projects in my batch at UPES.
- Secured **626 Global Rank** in October Cook-Off 2020 out of 4494 participants.
- Got Highest rating of 1722 at Codechef.

SKILLS

- C, C++, Python(Intermediate), Java(Basic), MATLAB(Basic), Embedded C(Basic), Cloudera(Basic), Tableau(Intermediate), Hadoop(Basic), MySQL(Intermediate)

COMPETITIVE PROGRAMMING PROFILES

- Codeforces Profile Link -codeforces.com/profile/zephxr
- Codechef Profile Link -codechef.com/users/zephxr

COURSES

- Design and analysis of algorithms , Advanced Data structures, Computer networks, Database Management System, Operating systems