Devansh Messon

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Education

University of Petroleum and Energy Studies(UPES) — Dehradun, India
Bachelor of Technology in Computer Science, Secured an aggregate of 8.26/10.0 CGPA (till date) — *June 2018 onwards*

New Era Public School — New Delhi, India
Central Board of Secondary Education, Secured an aggregate of 8.36/10.0 CGPA (12th) — *April 2017 – May 2018*

New Era Public School — New Delhi, India
Central Board of Secondary Education, Secured an aggregate of 9.0/10.0 CGPA (10th) — *April 2015 – May 2016*

Experience

Internship — June 2019 – July 2019
Defence Research and Development Organisation(DRDO) — *New Delhi, India*

- Developed a chemical agent dispersion model by simulating a Gaussian dispersion equation on MATLAB R2018a.
- Dispersion Model can be visualized on any location on the Indian map by clicking on that particular location.
- Clicking anywhere on the Indian map will fetch it's longitude and latitude.
- Signifies the estimation of the downwind ambient concentration of toxins emitted from various sources via colour variance.

Projects

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.
- Improved the accuracy to **89%** by training a Long Short Term Memory neural network (LSTM) on a stock dataset in the range(1990 - 2020)
- Performed Sentimental analysis through vaderSentiment on real-time news headlines fetched through News API.
- View Project - github.com/devanshmesson/Stock-Market-Prediction-System

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

Achievements

- Bagged 2^{nd} 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

- Languages: C, C++, Python(Intermediate), Java(Basic), MATLAB(Basic), Embedded C(Basic)
- Tools: Cloudera(Basic), Tableau(Intermediate)
- Frameworks: Hadoop(Basic)
- Database : 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