Divyam **Verma**

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Education

University of Petroleum and Energy Studies, Dehradun
B.TECH IN COMPUTATIONAL SCIENCE WITH SPECIALIZATION IN BUSINESS ANILYTICS AND OPT. (2018-2022)

Bidholi, Dehradun, Utk 248007
CGPA - 6.95/10.0(TILL 5TH SEMESTER)

AVMD Institute, Agra
CLASS 12TH (2018)

Sawai Etmadpur, Agra, UP 283202
PERCENTAGE - 70.8%

Prelude Public School, Agra
CLASS 10TH (2016)

Dayalbagh, Agra, UP 282005
CGPA - 8.8/10.0

Skills

Programming: C/C++, Python, SQL

Software: Sublime text, Visual Studio, Tableau, Oracle Data Modeler, Google analytics tool, Visual Paradigm, MS Excel, Jupyter, Arduino

Operating System: Windows, Ubuntu

Knowledge Proficiencies: Applied knowledge of data structures and Python libraries, Hands on practice of ML and AI algorithms, Real-world data manipulation and preprocessing, Applied DBMS, basic knowledge of SDLC, Data visualization and dashboard creation using Tableau, Basic knowledge of microcontrollers and microprocessors.

Social and Logical Skills: Innovative and creative mindset, Problem solving skills, Competitive programming skills, Quantitative and logical reasoning, Communication skills, Pitching and presentation skills, Leadership, Time management and organizational skills, Social innovator, Read and understand body language and psychology

Extra-Curricular: Synthesizer, Guitar, Singing, Chess, Football

Accomplishments

- **A Health tech Start-up Idea appreciated and accepted for Incubation Program by UCIE and Start-up Uttarakhand**

- **A service-based Start-up Idea selected for BMC review by UPES e-cell (in-process)**

- **Won 1st position in UPES SPE event "Code for Series" under the banner of Cyber week**

- **Certification of Google analytics (all 4 levels)**

- **Certification exam of Oracle academy (certification exam 1: foundation of database and certification exam 2: database design) and certified student member of oracle academy**

- **Got recognition in Social CSR event hosted by UPES Lazarus Performing Arts Society**

- **Participated in UPES CSI Hackathon 3.0 and selected under top 10**

Projects

Optimizing real road networks by applying time efficient shortest path algorithms

MENTOR: DR. AMIT SINGH   *Aug 2020 - Nov 2020*

- Explored and optimized shortest path algorithms using data structures (binary heap, Fibonacci heap, linked list, doubly binary heap), natured inspired algorithms and mathematical algorithms and analyzed their performance on the basis of time complexity on dense graph (up-to 1millon nodes) and sparse graphs. **The code implementation was done in C programming from scratch without using any libraries.**

Integrated E-shopping Application

MENTOR: DR. AMIT SINGH, CO MENTOR: DR. TANUPRIYA CHOUDARY   *Feb 2021 - IN PROGRESS*

- Creating an E-shopping application in which 1st objective is to suggest the user a product by using collaborative filtering and sentiment analysis (using naïve based and SVM algorithms). 2nd objective is to secure online transaction using encryption-decryption algorithms like RSA and vi-genre cipher. 3rd objective is to suggest shortest path from delivery hub to customer's address using optimized shortest path algorithms. **The code implementation done in C++ programming from scratch without using any libraries.**

Accepted Papers

ICCCIS 2021 IEEE CONFERENCE (IEEE XPLORE)

PAPER ID-67 Comparative Study of Various Approaches of Dijkstra Algorithm (accepted but under publication process)

AUTHORS: 1ST DIVYAM VERMA, 2ND DEVANSH MESSON, 3RD MAYANK RASTOGI, 4TH AMIT SINGH ;   CORRESPONDING AUTHOR: DIVYAM VERMA

Additional Accomplishment

- Volunteering in social programs like "Swach Bharat Abhivayn" and "Digital Sashaktikaran Abhivayn "
- Participated in Social CSR Education for life hosted by UPES Lazarus Performing Arts Society
- Member of IEEE
- Technical core team member of UPES IMFROMATICS CLUB
- Music head of Lazarus Performing Arts Society
- Won 1st position in UPES Orientation Program Group singing competition
- Participated in UPES Orientation Program Instrumental music competition
- Participated in UPES Urjaa 2019 WAR OF BANDS
- Participated in intra college football competition