DIVYAM VERMA

Innovative, Enthusiast and Quick Learner

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Career Objective

Engaged researcher and analyst having a skill of real-life problem solving through data structures, algorithms and machine learning. Seeking to leverage exemplary analytical and coding skills as a programmer and as an innovator.

Academic Background

Year(s)	Qualification – Degree	Board/University	Percentage / CGPA
2018-2022	B. Tech in Computer Science Engineering- Specialization in Business Analytics and Optimization	University of Petroleum and Energy Studies	6.95/10 (*Till end of Vth semester)
2017-2018	XII	CBSE	70.8%
2015-2016	X	CBSE	8.8/10

Training

Company: Finland Labs collaboration with IIT Roorkee
Project Title: Short Term Python Training Program
Description: Learned algorithms of AI and ML in Python

Duration: July 13st- July 24st,2020

Projects Undertaken (Academics)

Company: Minor 1 Project
Project Title: **Optimizing real road networks by applying time efficient shortest path algorithms**
Description: Explored and optimized shortest path algorithms from **37 seconds to 3 milliseconds** 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**
Duration: Aug 2020 – Nov 2020

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Company:	Minor 2 Project
Project Title:	**Integrated E-shopping Application**
Description:	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 algorithm). 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.**
Duration:	Feb 2021 – IN PROGRESS

Projects Undertaken (Personal Project)

Company:	Self -Project (A Health Tech Startup Idea Under UPES E-cell)
Project Title:	**Nadi Analysis and Diagnosis**
Description:	Exploration and implementation of ***Nadi-Pareeksha***, a concept of Ayurvedic science in creation of a health tech smart device.
Duration:	Dec 2020 – IN PROGRESS

Online Certifications

- Successfully completed **Certification exam of Oracle academy** (certification exam 1: foundation of database and certification exam 2: database design) and certified student member of oracle academy
- Successfully accomplished **online certification of Google analytics (all 4 levels)**
- Successfully accomplished online certification in **Encryption- Decryption using C++ project** from Coursera through Coursera portal.

Co-Curricular Activities/Achievements

- ✓ 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)**
- ✓ Got recognition as Best Paper Award for the paper titled " **Performance Analysis of Travelling Salesman Solution Approaches**" in the event of **paper presentation at ICFIRTP 2020 IEEE conference**
- ✓ Won 1st position in UPES event **"Code for Series"** under the banner of Cyber week
- ✓ Participated in UPES CSI Hackathon 3.0 and **selected under top 10**
- ✓ Won 1st position in UPES Orientation Program Group singing competition
- ✓ Worked as a music head of Lazarus Performing Arts Society **(2019-2020).**
- ✓ Technical core team member of UPES IMFORMATICS CLUB
- ✓ Participated in UPES Urjaa 2019 WAR OF BANDS
- ✓ Volunteered in social programs like "**Swach Bharat Abhivayn**" and "**Digital Sashaktikaran Abhivayn "**

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Accepted Paper

- **PAPER ID-67** Comparative Study of Various Approaches of Dijkstra Algorithm (accepted on **4th February 2021** at **ICCCIS IEEE Conference** published on **14thApril 2021** in **IEEE Xplore Digital Library) Authors: 1st Divyam Verma, 2nd Devansh Messon, 3rd Mayank Rastogi, 4th Amit Singh; Corresponding Author: Divyam Verma**

- **PAPER ID-44** Performance Analysis of Travelling Salesman Solution Approaches (accepted on **22nd March 2021** at **ICFIRTP IEEE Conference IEEE Xplore**) **Authors: 1st Devansh Messon, 2nd Divyam Verma, 3rd Mayank Rastogi, 4th Amit Singh; Corresponding Author: Divyam Verma**

Skills

- ✓ **Coding Languages:** C/C++, Python, SQL

- ✓ **Hands-on Software Skills:** Sublime text, Visual Studio, Tableau, Oracle Data Modeler, Google analytics tool, Visual Paradigm, MS office, Jupyter, Arduino

- ✓ **Operating System:** Windows, Ubuntu, CentOS (for Hadoop Cloudera basic level)

- ✓ **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,

I hereby declare that the information stated above is true to the best of my knowledge.
Name of the Student: DIVYAM VERMA