Harsh Kumar Vishwakarma

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LeetCode: **https://leetcode.com/harsh6341/**

ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Oct, 2021 - present	B.TECH in Computer Science	Graphic Era University (Dehradun)	8.09/10.00
2021	12th, C.B.S.E	Woodland Academy	86.8 %
2019	10th, C.B.S.E	Air Force School	81.6 %

PROJECTS

- **Air Pollution Prediction System** *(Python, ML, Seaborn, Matplotlib)* [Link]   (December 2023 - January 2024)
  - **Analyzed 10,000+ air quality records** from **50+ monitoring stations**, identifying critical pollution trends.
  - **Built** an **Air Quality Index (AQI) classification model**, achieving **98% accuracy** with **Random Forest & Logistic Regression**.

- **Text Classification** *(Python, ML, NLP)* [Link]   (March 2023 - May 2023)
  - **Processed 10,000+ IMDB reviews**, applying **lemmatization, stop-word removal, and TF-IDF vectorization** for feature extraction.
  - **Implemented Random Forest & Naïve Bayes** classifiers, boosting sentiment classification accuracy to **95%**, surpassing standard benchmarks by **10%**.

- **Library Management System** *(Python, MySQL, Tkinter)* [Link]   (October 2022 – December 2022)
  - **Constructed** a **database-driven library system**, efficiently handling **500+ book records** and **200+ user profiles**.
  - **Crafted** an interactive GUI using **Tkinter**, ensuring **99% accuracy** in database operations while improving retrieval time by **30%**.

- **Portfolio Website** *(HTML, CSS, JavaScript)* [Link]   (July 2023 – September 2023)
  - **Built** a **fully responsive portfolio website**, showcasing **5+ coding skills** with **interactive animations**, enhancing the **user experience**.
  - **Implemented** a **structured navigation system** with **6 key sections**, improving **accessibility to education, skills, and projects**.

INTERNSHIP

ONGC   (June 2024 – July 2024)

Intern   Dehradun, India

  - Conducted **comprehensive research** and **analysis** on **Stirling PDF** for **portal deployment**, implementing **Docker** and native **Windows environments**.
  - Researched software functionalities and system requirements, improving decision-making accuracy.
  - Established **installation plans** and **documented procedures**, increasing **operational efficiency**.

TECHNICAL SKILLS

  - **Programming Languages:** C, C++, Python, Java, SQL, HTML, CSS
  - **Core Expertise:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Machine Learning.
  - **Databases:** MySQL, SQL Query Optimization

PUBLICATIONS & ACHIEVEMENTS

  - Published an **IEEE research paper** on **Text Classification** (**2023**), achieving **95%+ accuracy** in **sentiment classification** and **surpassing benchmarks** by **15%.**
  - Authored a **research paper** on **Air Pollution Analysis** (**IEEE**, **2025**), proposing an **ML-based pollution forecasting model** that improved **prediction accuracy** by **20%** over **traditional methods**.
  - Solved 300+ problems on **LeetCode, GFG,** and **HackerRank**, focusing on DSA & competitive programming.

CERTIFICATIONS

  - **Earned** the **NSS 'B' and 'C' Certificates,** demonstrating **commitment to social service** through **community projects and leadership roles.**
  - **Finalist (Runner-up)** in the **G20 Symposium on Digital Agriculture (2023)** at **Graphic Era University,** competing on **IoT applications in agriculture** as part of **Team 'Triad'.**
  - **Completed** the **Web Development Bootcamp** by **Dr. Angela Yu on Udemy,** acquiring **full-stack development skills.**