VINIT MEHRA

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**EDUCATION**

**INTERNATIONAL INSTITUTE OF BUSINESS STUDIES** (2023-Present) Master of Business Administration

**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY** (2019-2023) Bachelor of Technology, Computer Science with specialization in AI & ML.

CGPA: 9.17

*Major Coursework: Artificial Intelligence - Machine Learning - Data Structures and Algorithms - Problem Solving and Object Oriented Programming - Software Engineering - Database Management Systems*

**IDP School Class XII** (GSEB)**,** (2018-2019)

Percentage: 65.08%

Major Coursework: Mathematics, Physics, Chemistry.

**SAKAR ENGLISH SCHOOL Class X** (GSEB), (2016-2017)

Percentage: 73.50%

# AREA OF INTERSET

* **Web Development**
* **Data Analytics**
* **Data Science**
* **Business Management**

# TECHNICAL SKILLS

**Languages:** Python - C/C++ - MySQL - JavaScript - HTML – CSS

**Software:** Microsoft excel - Anaconda - Unreal Engine - Flask - TensorFlow - Jupyter Notebooks - Chrome Extensions -Adobe Photoshop – Adobe Premium Pro

**Data Science and Machine Learning:** Machine Learning - Data Analytics - Artificial Intelligence – Web development - Computer Vision - Natural Language Processing - Time Series Analysis

**PROJECTS AND PAPERS**

**Paper on Efficient Net-based Expert System for Personalized Facial Skincare Recommendations** (June 2022 – December 2022)

*Python, Machine Learning, Deep Learning, Computer Vision*

* Implemented recommendation system for facial skin care utilized a hybrid model incorporating to provide personalized skincare recommendations based on user attributes and skin analysis data.
* Exploring the use of **Machine Learning** algorithms in skincare for personalized recommendations.
* Used methods like **KNN, CNN, Transfer Learning of Efficient Net B0, and content-based filtering** techniques in the models.
* Wrote a **research paper** and presented it in an **IEEE Conference**.
* The research paper <https://ieeexplore.ieee.org/document/10142790> was published in the IEEE Xplore journal on 08 June 2023.

**Paper on Optimizing Real-Time Path Planning for NPC Navigation** (December 2022 – May 2023)

*C++, Unreal Engine 5, Path finding Algorithm*

* Presents **CentA\*** as an extension of **A\***, enhancing starting and ending node selection, and triggering NPC behaviors before reaching destinations.
* Addresses challenges such as dynamic environments, obstacles, and simultaneous navigation of multiple agents, emphasizing the need for accuracy and efficiency in pathfinding algorithms.
* Explains the vital role of **AI pathfinding algorithms** in enabling realistic NPC navigation, enhancing player experience in games.
* Wrote a **research paper** and presented it in an **IEEE Conference** on 20 October 2023.

**Image to Text recognition Chrome Extension** (January 2022 – May 2022)

*Python, Google OCR, Digital Image Processing, Computer Vision*

* Chrome extension utilizing **Optical Character Recognition (OCR)** technology to extract text from images and videos within the browser.
* Utilizing Google's pre-trained Tesseract OCR engine, eliminating the need for manual data training.
* Applied threshold binarization using **Otsu's Thresholding** for optimal results, ensuring accuracy by adhering to Tesseract's predefined conditions through pre-processing.
* Streamlines text extraction from diverse sources like images and videos.
* Working on integrating **Natural Language Processing** techniques to understand the context around the extracted text, providing more meaningful and contextually relevant results.

# CERTIFICATIONS AND MEMBERSHIP

* **Database Foundations - ORACLE ACADEMY**
* **Apache Spark (TM) SQL for Data Analysts - COURSERA**
* **SQL Certification - HACKERRANK**
* **Python Certification - HACKERRANK**
* **Problem Solving Certification - HACKERRANK**
* **Artificial Intelligence with Python– SKILLFORGE**

# AWARDS AND ACHIEVEMENTS

* **Published and presented research papers at IEEE:**
  + Authored and published one paper in IEEE.
  + Presented a second paper at the IEEE conference.
* **President of MBA HR Club:**
  + Elected as President of the HR Club of the first year MBA.
* **Recognition in Best Manager Event - IIBS Surface 2023:**
  + Finalist in the Best Manager event at the IIBS Surface 2023.