

# VINIT MEHRA

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## EDUCATION

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### 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

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

## TECHNICAL SKILLS

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**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

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### 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.