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%

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 - 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.