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)

Major Coursework: Mathematics, Physics, Chemistry.

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

# AREA OF INTERSET

* **Data Analytics**
* **Data Engineer**
* **Business Analytics**
* **ML Engineer**

# TECHNICAL SKILLS

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

**Software:** Microsoft excel - Anaconda - Jupyter Notebooks – Power Bi – Tableau– AWS - Flask - TensorFlow - Chrome Extensions - Unreal Engine

**Data Science and Machine Learning:** Machine Learning - Data Analytics – Business Analytics - Artificial Intelligence - Computer Vision - Natural Language Processing - Extract, transform, and load - NoSQL - Big Data - Statistical Models – Visualizations - Time Series Analysis

**PROJECTS AND PAPERS**

**Paper on Efficient Net-based Expert System for 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**](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, AI, 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**](https://ieeexplore.ieee.org/document/10370778)was published in the IEEE Xplore journal on 03 January 2024.

**Gemma LLM: Empowering EDA for Fast-Food Sales Insights** (January 2022 – May 2022)

*Python, Google Gemma, EDA, Statistical Analysis, Visualizations*

* Conducted **Exploratory Data Analysis (EDA)** on fast-food sales data using **Gemma** Language Model (LLM), yielding insightful summaries.
* Applied diverse **data science methods and visualizations** with Gemma LLM integration, enhancing comprehension of dataset trends.
* Advocated for ethical AI usage, emphasizing responsible deployment of language models for data analysis tasks.

# CERTIFICATIONS AND MEMBERSHIP

* **Database Foundations - ORACLE ACADEMY**
* **Apache Spark (TM) SQL for Data Analysts - DATABRICKS**
* **SQL (Advanced) Certification - HACKERRANK**
* **Python Certification - HACKERRANK**
* **Preparing Data for Analysis with Microsoft Excel- MICROSOFT**
* **Extract, Transform and Load Data in Power BI– MICROSOFT**

# AWARDS AND ACHIEVEMENTS

* **Published and presented research papers at IEEE:**
  + Authored and published two papers in IEEE.
* **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.
* **Promoted to Kaggle Contributor:**
  + Achieved promotion to Kaggle Contributor status through active participation and successful performance in competitions.