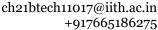


Mahaveer Regar

B.Tech Chemical Engineering







Degree	University/Institute	Year	CGPA/Marks(%)
B.Tech Chemical Engineering	IIT Hyderabad	2025	7.28
XII (Rajasthan Board of Secondary Education (RBSE))	Gyandev Public Sr. Sec. School, Sikar	2020	98.20%
X (Rajasthan Board of Secondary Education (RBSE))	Gyandev Public Sr. Sec. School, Sikar	2018	93.83%

SKILLS

- Programming Languages: Python, C++, SQL.
- Machine Learning Specialization: Feature Engineering, Supervised Machine Learning, Recommender Systems.
- Deep Learning Specialization: ANN, CNN, RNN, LSTM, NLP, Attention Mechanism, Transformers, Methods for Improving Neural Networks' Performance.
- Data Structures: Arrays, Linked Lists, Stacks, Queues, Binary Trees, Dictionary, Graphs.
- Algorithms: Sorting, Searching, Graph Algorithms, Dynamic Programming, Complexity Analysis
- CS Fundamentals: MySQL, Operating Systems, OOPs.
- Libraries: Scikit Learn, Pandas, Numpy, Matplotlib, Keras, Tensorflow, NLTK.
- Development Tools & IDEs: IntelliJ IDEA, Visual Studio Code, PyCharm, Google Colab.

RELEVANT COURSES

- Computer Science: Introduction to Programming
- Mathematics: Numerical Methods, Advance Numerical Methods, Calculus, Linear Algebra, Applied Mathematics For Chemical Engineers(included various topics on statistics and probability)
- Data Science and Machine Learning: Data Science and Analysis, Machine Learning for Process Systems Engineering

PROJECTS

Food Delivery Chatbot:

- A food delivery chatbot that combines Dialogflow for <u>understanding</u> and <u>processing natural language</u>, a Python backend with FastAPI to handle server-side tasks smoothly, and MySQL to manage data efficiently.
- Allows users to <u>track</u> the status of their <u>orders in real-time</u> and receive updates on delivery progress.
- Tech Stack: Dialogflow (Framework), MySQL(Database), FastAPI(Backend Framework)

Movie Recommender System:

- A web application that offers personalized movie recommendations by analyzing user preferences and historical movie data.
- It uses <u>vectorization techniques</u> like Bag of Words to convert movie keywords into vectors. Using <u>Cosine Similarity</u> it recommend movies.
- Tech Stack: Pycharm(IDE), Python(language), NLTK, scikit-learn, Numpy, Pandas, Streamlit)

Jarvis Personal Assistant:

- A versatile personal assistant named Jarvis which assist you with many functionalities like <u>Weather forcasting</u>, retrieves and provides <u>location</u> details, Communication (Texts via WhatsApp and sends emails), <u>system condition</u>, provides <u>news</u>, play videos on youtube, <u>conversational AI</u> (chatgpt like functionalities) and may more functions it provides.
- Tech Stack: Pycharm(IDE), Python, Hugging Face API, News API, OpenWeatherMap API

Stock Price Prediction:

- Implemented a Stock Price Prediction system by combining <u>Time Series Forecasting</u> techniques with <u>LSTM (Long Short-Term Memory)</u> models.
- It fetches real time data from Yahoo fnance library of python.
- Tech Stack: Python(language), Google Colab(IDE), ML libraries(Yahoo fnance, Tensorfow, Numpy, Pandas, Matplotlib)

Whatsapp Chat Analyzer:

- Developed a WhatsApp chat analyzer tool to <u>analyze</u> and <u>visualize messaging data</u> from WhatsApp conversations, providing insights into communication patterns and frequency of interactions.
- Creates interactive visualizations using Streamlit to present data insights. Features include graphs and charts depicting message frequency, sentiment trends, and participant engagement.

Tech Stack: Python(language), Pycharm(IDE), ML libraries(scikit-learn, NLTK, Numpy, Pandas, Streamlit)

EXPERIENCE

Data Analyst | Quantium

Dec 2023 - Feb 2024

- Developed expertise in data preparation and customer analytics, utilizing transaction datasets for commercial insights.
- Provided comprehensive reports to Category Manager, enabling evidence-based decision-making and enhancing commercial applications.
- Tech Stack: Python, Excel, Power Point, SQL

LSTM-Based Classifier for Multi-Cluster Video Data Analysis | Research Project

Jan 2025 - On going

- Developed a *machine learning pipeline* to classify video-derived data points into predefined clusters, enabling accurate and efficient data classification.
- Designed a *preprocessing pipeline* using *one-hot encoding* and *sliding window segmentation* to convert raw video data into time-series input.
- Built and optimized an LSTM-based classifier, outperforming ANN and RNN models in accuracy and reproducibility through iterative fine-tuning.
- On going research under the guidance of Dr. Lopamudra Giri, Associate Professor, IITH.