

EDUCATION

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| • INDIAN INSTITUTE OF TECHNOLOGY(BHU) | VARANASI,INDIA |
| INTEGRATED DUAL DEGREE- MECHAINCAL ENGINEERING; CGPA: 8.44 | 2022-2027 |
| • S.R.D.A.V. PUBLIC SCHOOL | DELHI,INDIA |
| CBSE(CLASS XII); CGPA: 93.8% | 2022 |

SKILLS SUMMARY

- **LANGUAGES:** PYTHON(PANDAS, NUMPY, MATPLOTLIB, SEABORN) ,SQL
- **FRAMEWORKS:** SCIKIT LEARN, TENSORFLOW, KERAS , LANGCHAIN
- **TOOLS:** GIT, POSTGRESQL, EXCEL, POWERBI
- **PLATFORMS:** WINDOWS, LINUX, AWS
- **SOFT SKILLS:** TIME MANAGEMENT, CRITICAL THINKING, PUBLIC SPEAKING

PROJECTS

REAL ESTATE PRICE PREDICTION MODEL | [LINK](#)

OBJECTIVE WAS TO BUILD A COMPLETE PRODUCT WHICH CAN BE USED BY ANY END USER WHO WISHES TO BUY PROPERTY

- THE PROJECT HAS RECOMMENDER MODULE, PRICE PREDICTOR MODULE AND THE ANALYTICS MODULE FOR THE PROPERTIES OF GURGAON.
- PRICE PREDICTOR MODULE USED RANDOM FOREST REGRESSOR WHICH WAS TRAINED ON DATA HAVING MORE THAN 40000 DATA POINTS WITH A R2 SCORE OF 0.90 AND MAE OF 0.45.
- RECOMMENDER SYSTEMS USES THE TFIDF VECTORISER AND COSINE SIMILARITY FOR SUGGESTING PROPERTIES WHICH ARE SIMILAR TO SELECTED PROPERTIES GIVING WEIGHTED IMPORTANCE TO VARIOUS FEATURES (MUTABLE).
- ANALYTICS MODULE PROVIDES THE VALUABLE INSIGHTS ON EXISTING PROPERTIES OF GURGAON USING ANALYTICAL LIBRARIES LIKE PLOTLY AND SEABORN.

MEDICAL CHATBOT | [LINK](#)

OBJECTIVE WAS TO DEVELOP A MEDICAL CHATBOT CAPABLE OF ANSWERING USER QUERIES RELATED TO MEDICAL INFORMATION AND PROVIDING RELEVANT RESOURCES IN A TIMELY AND ACCURATE MANNER, UTILIZING NATURAL LANGUAGE PROCESSING AND INFORMATION RETRIEVAL TECHNIQUES.

- IMPLEMENTED A DATA EXTRACTION PIPELINE TO EXTRACT TEXT FROM PDF DOCUMENTS CONTAINING MEDICAL INFORMATION.
- UTILIZED LANGCHAIN FOR TEXT PREPROCESSING AND CHUNKING TO PREPARE THE TEXT DATA FOR ANALYSIS.
- INTEGRATED A HUGGING FACE EMBEDDINGS MODEL FOR ENCODING TEXT CHUNKS AND A PINECONE VECTOR STORE FOR EFFICIENT SIMILARITY SEARCH.
- DEVELOPED A CUSTOM PROMPTTEMPLATE FOR QUESTION-ANSWER GENERATION AND UTILIZED A CTRANSFORMERS MODEL FOR CONVERSATIONAL RESPONSES.
- CREATED A USER-FRIENDLY CHATBOT INTERFACE FOR INTERACTING WITH THE MEDICAL CHATBOT.

HONORS AND AWARDS

- PARTICIPANT IN CONVOLE(PAN IIT DATA ANALYTIC EVENT)
- SECOND RUNNER UP IN STATISTELLA