RAHUL BARODIA

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EDUCATION

IIT Jodhpur	BTech in Computer Science	7.1 CGPA	*2020 -2024*
New High School Mains	Class 12th	94.31 %	*2020*
School of Scholars	Class 10th	95.6 %	*2018*

SKILLS

Programming Languages and Tools : Python , R , C , C++ , Javascript, SQL, Git, GitHub, FastAPI
Machine Learning & AI: TensorFlow, Keras, PyTorch, LLM, LangChain, OpenCV, Scikit-learn
NLP & Data Analysis : BERT, GPT, Regex, NER, Word2Vec, Embeddings, Matplotlib, Seaborn, Plotly, Tableau, PowerBi
Soft Skills: Communication, Problem-Solving, Teamwork, Leadership

PROJECTS

InsightPDF [Link]   *May 2024 - June 2024*
- Developed an interactive Streamlit application, "InsightPDF," enabling users to chat with their PDFs through advanced Google Generative AI, enhancing document interaction and information retrieval.
- Implemented a robust PDF processing pipeline using FAISS for vector storage and Google Generative AI embeddings, ensuring accurate and context-aware responses to user queries.

Sign Language Detection [Link]   *Sept 2023 - Nov 2023*
- Developed a sign language detection system using computer vision and machine learning, achieving 89.34% accuracy. Utilized MediaPipe for gesture capture, and trained SVM and Random Forest classifiers for real-time interpretation.
- Implemented real-time detection with TensorFlow, MediaPipe, LSTM, and OpenCV, achieving 93.42% accuracy.

Movie Recommendation System [Link]   *April 2022 - May 2022*
- Created a Movie Recommendation System using Content-Based Filtering, KNN, Genre-Based, and Neural Network models, achieving 91.44% accuracy.
- Enhanced system through data cleaning, feature engineering, and text processing. Conducted performance analysis to evaluate model effectiveness.

Indian Elections Data Visualization [Link]   *March 2024 - June 2024*
- Visualized 2024 and historical election data for constituency-wise party performance, state-wise analysis, seat distribution, and voter turnout, offering insightful electoral trend analysis using streamlit, plotly, matplotlib,etc.
- Utilized diverse NLP techniques (BERT, TextBlob, TF-IDF, WordCloud, SpaCy) to analyze and visualize sentiments for the 2024 elections

EXPERIENCE & ACHIEVEMENTS

PROMETEO (TechFest IIT Jodhpur) DevQuest 2024   [Certificate]   *Jan 2024*
- Collaborated within a 5-member team to secure a 2nd rank among 100+ participating teams. Developed an E-Commerce app utilizing the MERN stack. Features include login, voice assistant search, wishlist functionality, etc.

INAE-SERB Youth Conclave Hackathon 2022 [Link] [Certificate]   *Aug 2022 - Sept 2022*
- Collaborated with a team of 5 members to develop a voice-activated device like Alexa, achieving 92% speech recognition accuracy. Implemented keyword extraction and NLP techniques for enhanced interactivity.

COURSEWORK

Data Structures and Algorithms	Machine Learning	Computer Networks	Operating System
Database Management Systems	Cyber Security	Software Engineering	Maths for Computing

EXTRACURRICULAR

- Assistant Head in Publicity and Media Team of Varchas - IIT Jodhpur's annual sports fest
- Core Member FrameX- Video editing and Film Making Club