Muhammad Jawad

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EDUCATION

University of Peshawar   2021 - Current

BS Computer Science – CGPA **3.65/4.0**

PROJECTS

Generative AI Chatbot Project

- Utilized the **google/gemma-2b-it** Gemma model from Hugging Face to create a chatbot capable of generating human-like text responses for various user inputs.
- Integrated an interactive user interface with Streamlit, allowing users to easily interact with the chatbot and configure response settings.
- Added customizable system prompts, adjustable response settings, and a chat history management system to enhance user experience and engagement.

Machine Learning for Student Adaptability in Online Education during COVID-19   2024

- Implemented machine learning algorithms including KNN and Decision Trees to predict adaptivity levels of students in online education settings during COVID-19.
- Conducted comprehensive data preprocessing steps, including binary encoding, one-hot encoding, and ordinal encoding, to prepare the dataset for analysis.
- Achieved accuracy scores of 90% and above using both KNN and Decision Tree models, demonstrating proficiency in model selection and evaluation techniques.

Hotel Analytics Dashboard   2024

- Led hotel analytics Capstone Project, using Power BI to visualize key metrics and deliver actionable insights for strategic decision-making.
- Analyzed metrics including Revenue Management, Platform Performance, Customer Experience, and Market Trends to drive value for the luxury hotel chain.
- Transformed data into actionable business insights, showcasing strong analytical abilities.

CERTIFATIONS

ByteWise Limited   2024

Data Science Fellowship

AtomCamp   2024

AI (ML, DL, CV, NLP, MLOps, GenAI) BootCamp

AtomCamp   2024

Data Science BootCamp

Change Mechanics - DECODE   2024

Data Analytics BootCamp

SKILLS

- Machine Learning/Deep Learning
- Python: pandas, numpy, scikit-learn, seaborn, matplotlib, ydata_profiling
- Keras, PyTorch, TensorFlow
- Statistical Analysis
- MySQL/PostgreSQL
- SQL
- Microsoft Power BI
- Spreadsheet

EXTRACURRICULAR

Volunteer @ KP Business Expo 2023 - University of Peshawar   Nov 2023 – Dec 2023

- Initiated engagement with local businesses, persuading their participation at the expo, amplifying community representation.
- Managed business stalls, ensuring organized and appealing presentations, optimizing visitor experience.
- Collaborated in a team to implement efficient crowd management strategies, enhancing event operations