Umair Khan

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📞 +918840002731   📍 Sultanpur , UP , 228001   Availability : Open to all locations in India

Education

Kamla Nehru Institute of Physical And Social Sciences , Sultanpur   *Nov 2020 - July 2024*

B.Tech   .

Computer Science And Engineering

Graduated with First Division with Distinction

Skills

Languages
- Python , Java

ML/DL Frameworks
- TensorFlow, PyTorch, Scikit-learn , Keras

Specialized Skills
- Natural Language Processing (NLP), Computer Vision

Tools
- Git, Jupyter, Pandas, NumPy, OpenCV, Matplotlib , Tableau, Docker ,Gradio, Hugging Face

Math
- Linear Algebra, Calculus, Statistics, Probability

Project

Real-Time Image Edge Detection Using OpenCV
- Engineered a system achieving 95% accuracy in edge detection using the Canny algorithm
- Optimized processing speed, reducing image analysis time by 40% through efficient grayscale conversion
- Displayed processed images with detected edges using OpenCV and Gradio.
- **Technologies**: OpenCV, Python, Gradio

Detecting-Toxicity-in-Online-Comments-Building-an-AI-Model-for-Harmful-Content-Detection

- Developed an NLP model achieving 90% accuracy in identifying toxic and harmful content
- Implemented data preprocessing techniques that improved model performance by 15%
- **Technologies**: Python, Scikit-Learn, TensorFlow, Pandas

African-Banking-Crisis-Prediction

- Constructed a predictive model for banking crises using machine learning techniques and economic data.
- Performed data preprocessing and feature engineering to enhance model performance.
- Visualized key trends and model predictions using Plotly Express to interpret results effectively.
- **Technologies**: Python, Scikit-Learn, Pandas, Plotly Express

Moneyball Linear Regression Model

- Built a model predicting player value with 80% accuracy based on MLB performance statistics
- Deployed on Hugging Face, enabling real-time predictions with an average response time of 2 seconds
- **Technologies**: Python, PyTorch, Gradio.

Experience

Spacept

Machine Learning Engineer Intern
Dec 2023 - Feb 2024
- Improved system performance by upgrading and integrating the latest libraries, ensuring compatibility and reducing processing errors by 30%.
- **Developed an inference class for efficient model deployment on images, streamlining the inference process**
- **Model File Management:** Managing and ensuring accessibility of model files within the GitHub repository, providing support if needed

Ybi Foundation

Machine Learning Engineer Intern
Oct 2023 - Nov 2023
- Collaborated on cutting-edge AI/ML projects, contributing to a 15% reduction in processing time for large datasets
- Applied data analysis and predictive modeling techniques in real-world scenarios, enhancing AI algorithm accuracy through continuous optimization.
- Enhanced skills in cutting-edge AI/ML technologies and practical applications