Hassaan Mustafavi

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ABOUT ME

Aspiring AI/ML Engineer with foundational knowledge of **Python, TensorFlow, PyTorch, Keras, and Scikit-learn,** having hands-on experience in small projects and practical implementations. Eager to apply and enhance skills through real-world applications.

SKILLS & TOOLS

- ✓ **Data Analysis and Machine Learning / Deep Learning:** Pandas, NumPy, Matplotlib, Scikit Learn, NLTK, TensorFlow, Keras, PyTorch, SpaCy, Natural Language Processing
- ✓ **Data Engineering:** SQL, Data Pipelines, Data Cleaning ,Feature Engineering
- ✓ **Data Scrapping and Automation:** BeautifulSoup, Selenium, Scrapy
- ✓ **Cloud Platforms:** Amazon AWS EC2
- ✓ **Programming:** Python, JavaScript, Java, Dart, C++, C
- ✓ **Development:** Native App Development (Java), Flutter, Firebase, Streamlit
- ✓ **Others:** Git, Git-hub, version control

PROJECTS

Machine Learning / Data Science Projects

- ✓ **Real Estate Price Estimation:** Scraped, combined data from two websites and develop a Regression and Prophet model for forecasting trends and prices, optimizing accuracy through preprocessing and feature engineering.
- ✓ **Emotion Detection App:** An NLP-based project, Pre-processed the data by removing stop-words, stemming, and more. Tested with BILSTM RNN and CNN, Achieved an accuracy of around 89%.
- ✓ **Bubble Sheet Grading**: An image-processing pipeline to evaluate MCQ sheets, detecting responses and applying negative marking without pre-trained models.
- ✓ **Google Play Reviews Analysis:** Analyzed and classified user satisfaction from Google Play app reviews
- ✓ **Phishing URLs:** Developed a phishing URL detection system by implementing five distinct machine learning models and achieved a good accuracy.

Current Projects:

- ✓ **Text2Vision Using GANs**: Implementing CGANS to generate images from text, enhancing realism and semantic alignment through research-driven optimization.

EDUCATION

Bachelor's in Computer Science (Fast NUCES, Lahore) [2021 - Present]

Relevant Courses:

- ✓ Artificial Intelligence
- ✓ Data Science
- ✓ Applied Machine Learning
- ✓ Computer Vision
- ✓ Digital Image Processing
- ✓ Linear Algebra
- ✓ Probability and Statistics

REFRENCES

Available upon request.