MONZER KOUKOU

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EDUCATION

Ankara University
BSc in Computer Engineering (100% English) **GPA: 3.52 / 4.00**

Sep 2020 - Jun 2024
Ankara, Türkiye

İstinye University
MSc in Artificial Intelligence Engineering (100% English)

Oct 2024 - Present
İstanbul, Türkiye

RELEVANT PROJECTS

Fake News Detection Using an LSTM Model (NLP) │ Report
- Collected and preprocessed diverse datasets from Kaggle, processing over 71,000 records.
- Utilized Keras for model development and training with extensive tuning and optimization to enhance model performance.
- Employed TF-IDF and Word2Vec for vectorization, with 300-dimensional GloVe embeddings (5.6GB) to enhance semantic understanding and model accuracy.
- Achieved a high accuracy of 96.91% on the test set, demonstrating practical robustness by accurately classifying real-world news examples with 95% accuracy.

Fake News Detection Using Ensemble and SVM Methods (NLP) │ GitHub │ Report
- Collected and preprocessed large datasets from various sources using NLTK and Pandas.
- Leveraged PyTorch and Scikit-learn for implementing, training, and evaluating the models.
- Applied TF-IDF and CountVectorizer for feature extraction to convert text data into numerical representations.
- Attained an impressive accuracy of 98.70% with the Random Forest ensemble method and 98.47% with SVM, maintaining precision, recall, and F1-scores above 98%.

Real-Time Sign Language Recognition Using CNN (Computer Vision) │ GitHub │ Report
- Developed a real-time sign language detection system using Convolutional Neural Networks for recognizing different sign language gestures.
- Implemented MediaPipe for precise real-time hand landmark detection.
- Utilized PyTorch for model development and training with extensive tuning and optimization.
- Achieved a remarkable accuracy of 91.11% for numerical gestures and 87.01% for alphabet gestures, demonstrating responsiveness in real-time detection scenarios.

WORK EXPERIENCE

Scramblebit Programming Ltd.
Frontend Developer Intern

Jun 2023 - Sep 2023
Istanbul, Türkiye

- Developed a functional and aesthetically pleasing website for Bosphorus Sweets Company.
- Leveraged technologies including Node.js, React, JavaScript, HTML, and CSS to deliver a seamless front-end experience.
- Established full-stack solutions including data flow management and server configuration.
- Deployed the website using GoDaddy, ensuring global accessibility and user-friendly experience.
- Gained hands-on experience with MySQL databases and PhpMyAdmin for data management.

TECHNICAL SKILLS

- **Python**
- **TensorFlow**
- **Keras**
- **PyTorch**
- **Scikit-learn**
- **Computer Vision**
- **Natural Language Processing**
- **Deep Learning**
- **Machine Learning**
- **NumPy**
- **Pandas**
- **Matplotlib**
- **Data Mining**
- **Data Cleaning**
- **GANs**
- **VAEs**
- **Transformer Models**