Zohaib Arshid

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EDUCATION

Master in Computer Science Sep 2019 | Sep 2021

Comsats University Islamabad

Research: Improving Sentiment Prediction of App Reviews Using Semi-Supervised Learning Techniques

Courses: Natural Language Processing, Machine Learning, Intelligent System, Neural Networks

Bachelors in Software Engineering Sep 2015 | Sep 2019

Comsats University Islamabad

Project: Image Sharing Steganography: Implemented to ensure secure transmission and storage of sensitive data while preserving the visual integrity of the original image.

WORK EXPERIENCE

2B VISION | Artifical Intelligence Engineer Lahore | April 2023 – Present

- I led the development and implementation of a data extraction framework for diverse unstructured data. Utilizing Language Learning Models like **Bard, Vicuna, and ChatGPT**, alongside Regular Expressions and custom Python scripts, I transformed unstructured data into structured formats, enabling efficient data analysis. My approach handled data inconsistencies and missing values, resulting in a robust extraction mechanism that enhanced data usability for downstream tasks. This project significantly refined my skills in **Python, Regular Expressions, SQL, LLMs, and data analysis**.
- Medication Recommendation System **Python, Regular Expressions, SQL, LLMs, and Data Extraction**.
- Facial Recognition and Tracking System **Python, Yolov5, resnet100, FastApi**.
- Automate MS Word edit and information **Python, Chatgptapi, LLM, CSV**, Utilizing CSV data containing details such as "name, address, and some personal information," the objective is to automatically update a Word document by leveraging the ChatGPT API. The API will be employed to comprehend the text and subsequently update the document with all user information seamlessly.

NEUROG | Machine Learning Engineer Islamabad | April 2022 – March 2023

- Utilized Opensea API to extract data, performed analysis on the data, created maps using Opensea data, implemented **ETL** processes, and stored the data in **MongoDB**.
- Automated and Extracted data from various websites, Twitter, Facebook using **Selenium, Beautifulsoup, Scrapy**
- Applied image embedding techniques using **Resnet50, Densenet, EfficientnetB5, and Vgg19 models**
- Developed various **Flask APIs**
- Created a task-specific chatbot capable of audio preprocessing, audio clustering, speech-to-text conversion, text preprocessing, semantic analysis using NLTK, NLG, and text-to-speech capabilities using OpenAI , Hugging Face, GPT, and Whisper technologies.

AEYRON TECHNOLOGY | Junior Computer Vision Engineer Islamabad | November 2021 – March 2022

- Computer Vision models and techniques like **Movenet, MediaPipe, CNNs (efficientnet, densenet, VGG19)**, video scraping, efficient data cleaning, and annotation methods **(Yolov5)** are used.
- Web scraping, **easyOCR** are utilized.

- **OCR(Pytesseract), Regular Expression, NLP, Raspberry Pi, and a Canon camera** are employed for image processing and analysis.

CUBE HEALTH-CARE SYSTEM | Data Science Intern — Abbottabad | April 2021 – July 2021

- Utilized **Google Speech Recognition and Watson API** for speech-to-text conversion and natural language processing tasks.
- Applied **pytesseract, easyOCR, and OpenCV** for optical character recognition (OCR) and image processing tasks.
- Employed **NLTK, TF-IDF score, SQL, and PowerBI** for data extraction, natural language processing, database querying, and visualization tasks.

PROJECTS

ANOMALY DETECTION — MediaPipe, MoveNet, YoloV5, CNN(eficientnet, densenet, VGG19)
Implemented an anomaly detection system using computer vision techniques. Developed human body pose estimation and gesture detection algorithms to analyze video data. Incorporated video scraping and data cleaning methods for fight and weapon detection, enhancing overall system accuracy. Demonstrated proficiency in computer vision technologies and data annotation.

GROCERY PRODUCT INFORMATION DETECTION SYSTEM — OCR, YoloV5, Regex, NLP, Raspberry Pi
Implemented an end-to-end solution for capturing and analyzing product labels in real-time, enabling accurate recognition of key information. Improved inventory management and customer experience through automated data extraction and processing.

DAILOG AGENT — Python, NLP, GPT, Whisper
Developed a task-specific chatbot utilizing audio preprocessing, audio clustering, speech-to-text conversion, text preprocessing, semantic analysis using NLTK, natural language generation, and text-to-speech capabilities. Leveraged cutting-edge technologies such as OpenAI's GPT-3 and Hugging Face's Whisper for enhanced performance.

CARS NUMBER PLATE RECOGNITION — Python, Scrapping, YoloV5, OCR
Developed a Cars Number Plate Recognition system using advanced techniques such as web scraping, YoloV5 object detection, and easyOCR for accurate license plate identification. Implemented automation to extract and analyze license plate data from images or video streams. Demonstrated strong proficiency in computer vision, deep learning, and data processing for real-world applications.

OPENSEA MAPS — Python,JavaScript,MongoDB,
Developed a project utilizing Opensea API for data scrapping and performed data analysis. Implemented ETL processes and utilized MongoDB for data storage. Created interactive maps based on Opensea data for visual representation.

OTHER PROJECTS

- Water Pipe Leakage Detection: **Scrapping, YoloV5**
- Movie Recommendation System: **Python, Data Analysis**
- PDF Classification and Data Extraction: **BERT, GPT, Regex, SQL**

SKILLS

Languages: Python, Java, SQL
Web Development: JavaScript, HTML/CSS
Technology: Git, Flask, Docker, LaTeX, MongoDB, AWS(EC2)
Micro-controllers: Arduino, Raspberry pi 4

LANGUAGE

- English
- Urdu

REFERENCE

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