UMUT EREN AKBAS

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OBJECTIVE

"I am a passionate Computer Engineering student with a strong interest in artificial intelligence, web development, and data science. I aim to bring my skills in Python, TensorFlow, ASP.NET MVC, and modern web technologies to the industry by developing innovative projects and user-centered solutions. With my team spirit, problem-solving skills, and eagerness to learn, I strive to create added value in a technology-oriented environment."

EDUCATION

Mersin University (GPA 2.92/4)
Computer Engineering September 2020 -
Yenisehir Mersin Anadolu High school

TECHNICAL SKILLS

Languages

Python, C++, C, JavaScript, HTML, CSS, Java

AI and Data Science:

TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib

Web Development:

ASP.NET MVC, Bootstrap

EXPERIENCE

07/2024 - 09/2024: Intern, Netsim Yazılım, Kayseri

Participated in a web-based application development project.

Used C and ASP.NET MVC for backend development; HTML, CSS, and JavaScript for frontend development.

Designed user-friendly interfaces and implemented database integration.

PROJECTS

Social Media Data Analysis with RedditScrap

Developed as part of a university course, this project involved collecting data from the Reddit platform for sentiment analysis or content classification. Social Media Data Analysis with RedditScrap Employed Python-based data scraping and natural language processing techniques. The model achieved an 80% accuracy rate.

• **Link** :https://github.com/umuterenakbass/redditscrap
• **Technology/Too**ls: Python, Pandas, Scikit-learn, NLTK

Voice Command-Based Smart Assistant

Developed a smart assistant application that users can interact with via voice commands.Implemented natural language processing and voice recognition algorithms. Integrated with a user-friendly interface.

- **Technology/Tools:** Python, TensorFlow, SpeechRecognition, Gradio
- **Link** :https://github.com/umuterenakbass/text-to-speech

MVC-Based E-Commerce Application

Developed an e-commerce platform using ASP.NET MVC. Included features like user authentication, product management, and payment integration. Designed as a secure and scalable web application
- **Technology/Tools**: C#, ASP.NET MVC, PostgreSQL, Bootst

CineFind - IMDb Movie Discovery App

CineFind is a web application that helps users discover top-rated movies by genre using IMDb data. The app features a modern UI, fast movie scraping, random recommendations, and CSV export functionality.

Features
- Browse movies by genre (Action, Comedy, Drama, etc.)
- Scrapes IMDb for the latest top movies
- View movie details and IMDb ratings
- Click movie titles to open IMDb pages
- Get 3 random movie recommendations
- Export results to CSV
- Responsive and visually appealing design

- **Technologies Used**
- Python (Flask)
- BeautifulSoup (for web scraping)
- HTML, CSS, JavaScript

Flappy Bird AI Agent (Deep Reinforcement Learning)

Developed an autonomous AI agent capable of playing the classic Flappy Bird game using Deep Q-Learning (DQN). The agent learns optimal actions through trial and error, utilizing a reward-based system and an epsilon-greedy policy to balance exploration and exploitation. The training process integrates advanced reinforcement learning concepts, reward shaping, and neural network optimization. The game environment and physics were simulated in real-time using Pygame.

Technologies & Tools:
- Python 3.9
- PyTorch – for deep reinforcement learning model (DQN)
- Pygame – for real-time simulation and visualization
- NumPy – for numerical computations
- Random library – for environment randomness
- Anaconda / Spyder / VSCode – as development environments

Music Recommendation System

Developed a full-stack music recommendation system that suggests songs based on musical characteristics using machine learning algorithms. The system analyzes various audio features such as danceability, energy, tempo, and acousticness to provide personalized music recommendations through an intuitive web interface.

Technologies & Tools:
- Python 3.x
- Flask (Web Framework)
- scikit-learn (Machine Learning)
- pandas & NumPy (Data Processing)
- Spotipy (Spotify API Integration)

CERTIFICATION

.**Technologies & Tools:**
- BTK Akademi Artificial Intelligence with Python
- BTK Akademi Web Development (HTML, CSS, JavaScript)