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August 30, 2024
Group name: CKM (temporary)
GitHub repo: github.com/micho0802/UMKC-DS-Capstone

UMKC Data Science Capstone

Capstone project for applying machine learning.

Potential Stroke Detection

1. **Objective:** Developed a comprehensive, real-time stroke detection platform that integrates diverse biometric data sources, including facial recognition, heart rate monitoring, fever detection, and body movement analysis, to accurately identify potential stroke events early. Implement an AI recommendation system that not only identifies nearest ER but calculate the shortest amount of wait time; also, build a chatbot that can guide the bystander through the emergency response procedure.
2. **Data Sources:**
 - **Stroke Dataset:**
 - Face Images of Acute Stroke and Non-Acute Stroke (Kaggle)
 - Brain Stroke CT Image Dataset (Kaggle)
 - CVES Dataset (PhysioNet)
 - **Pneumonia Dataset:**
 - Chest X-ray Pneumonia Dataset (Kaggle)
 - **COVID-19 Dataset:**
 - COVID-19 Image Repository (GitHub)
3. **Existing Project:** Fastai.app (App)
4. **Application:** Detecting stroke and maybe extending to detect other diseases.
5. **Target Audience:** The platform is designed to serve the general population by enabling early detection of strokes and other illnesses by analyzing body movement images.