Final Project Progress Report

Important: In your report, please 1) Make it very clear who on the team contributed what, and 2) Include the dates of at least *two* meetings you had with your mentor.
Team name: *The Playmakers*
TA name: *Joel Manasseh*
Meeting Date(s): *4/24/24*

Note: when submitting this document to Gradescope, make sure to add all other team members to the submission. This can be done on the submission page after uploading.

Progress Report Instructions

Before writing your progress report, you should have met with your TA and talked through your progress.

Team contributions

Please describe in one paragraph (3–4 sentences) per team member what each of you contributed to the project so far.

Chenhao Lu Investigated different methods used for the player detection and tracking task, e.g. OpenCV, YOLO, etc. Waiting for the data collection to be done before experimenting with the approaches.

Ruida Zeng Studied methods that can be used to perform the computer vision task of training the NFL plays data, this includes things like parsing, video compression, and frame reduction. Also looked at ways we can train the data besides using Google Colab (potential limited GPU resources) such as Amazon S3/EC2 or Microsoft Azure. Analyzed and approximated training time on the amount of data points.

Atif Khan Researched different methods used for wide receiver detection and route tracking, such as, YOLO (You Only Look Once), SSD (Single Shot Detector), Faster R-CNN (Region-based Convolutional Neural Network). Most likely will go with YOLO since it is extremely fast and accurate. It divides the image into a grid and predicts bounding boxes and probabilities for each grid cell which is especially useful for real-time object detection.

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