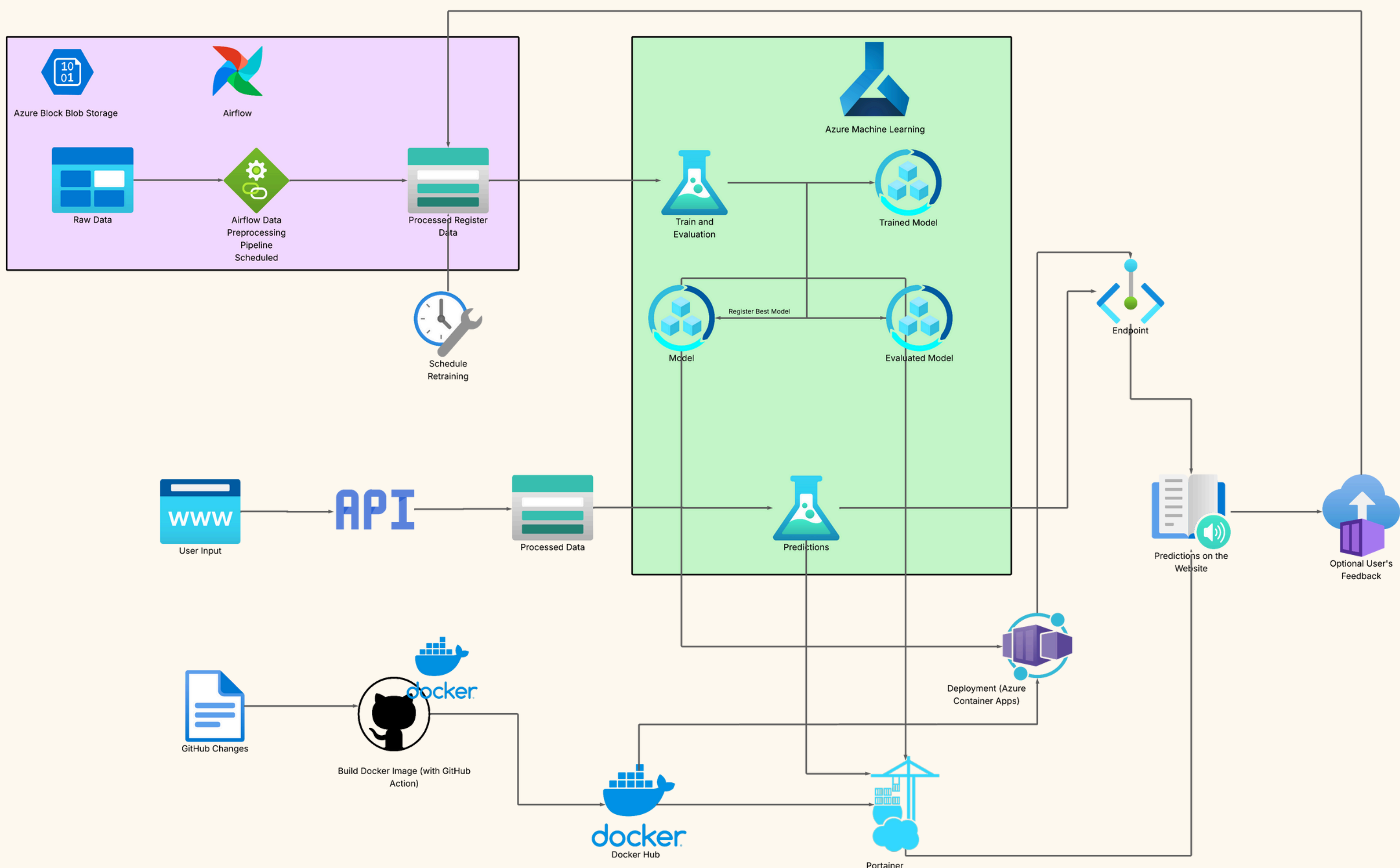


Natural Language Processing Application

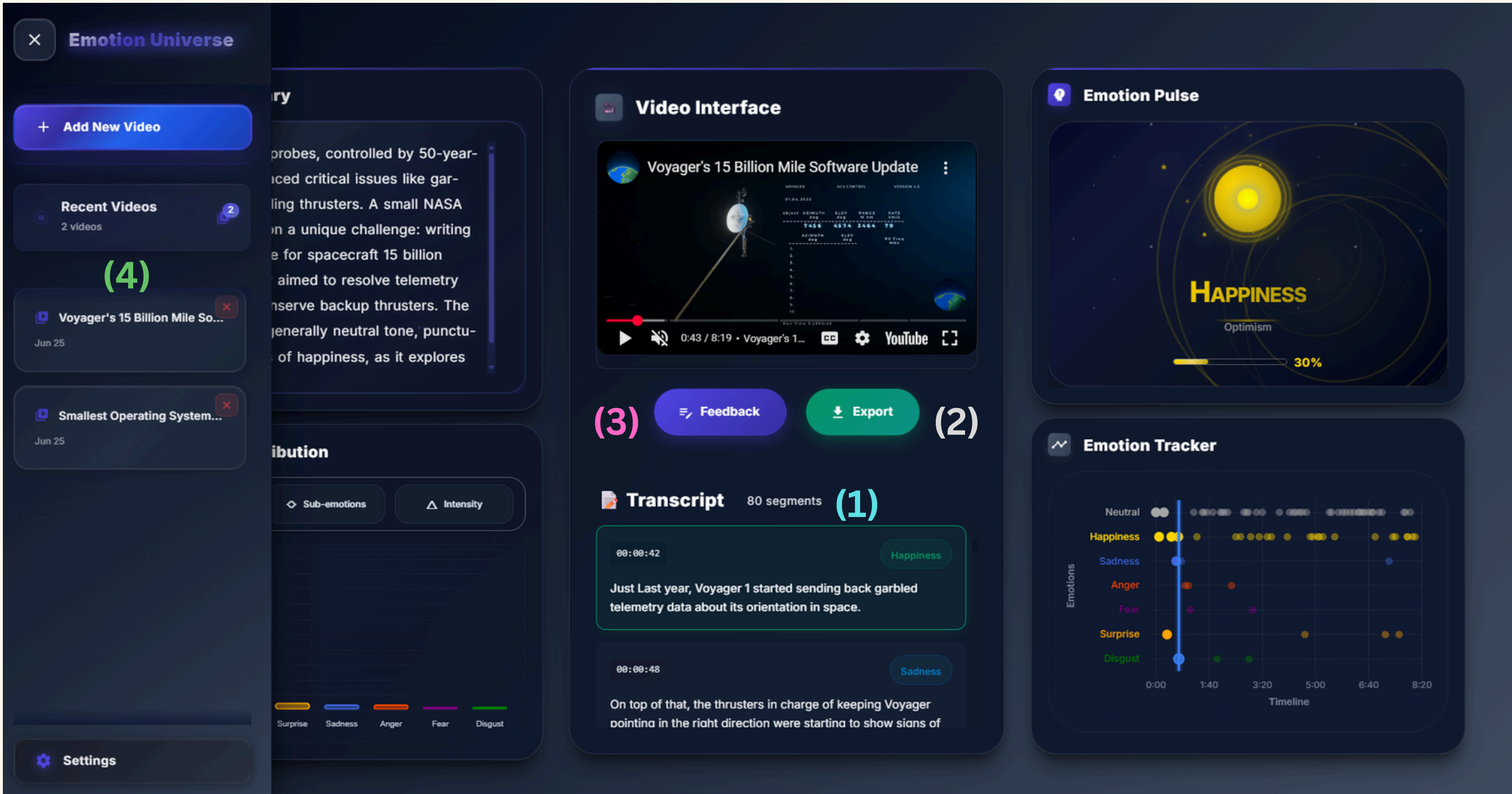
Our project revolves around the objective of predicting emotions for each phrase of a given video file. The user provides a video file, which is then transcribed, and afterwards the model predicts the emotions per phrase, which can be seen in real time on the website. After that, the user can still see statistics such as the number of certain predicted emotions, which can also be transferred later to their own device. Also, the user is able to provide feedback to certain emotions to the model which will be used to improve the model predictions.

1 Pipeline Architecture



2 Benefits

Pros



Real-time emotion analysis (1)

Future improvements contributed by user feedback (3)

Able to download the statistics and the transcription (2)

Easy access to old analysis (4)

3 Future Improvements



- Face Tracking emotions for videos
- Other Languages Availability
- Accept other files such as csv
- Accept mp4 files from the user's device



4 Costs

Services	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month
Azure Machine Learning	57.12 \$	57.12 \$	57.12 \$	57.12 \$	57.12 \$	57.12 \$
Azure Container Apps	Free	Free	Free	Free	Free	Free
Azure Endpoints	3.45 \$	3.45 \$	3.45 \$	3.45 \$	3.45 \$	3.45 \$
Data Block Blob Storage	0.12 \$	0.21 \$	0.29 \$	0.37 \$	0.46 \$	0.54 \$
Total	60.69 \$	60.78 \$	60.86 \$	60.94 \$	61.03 \$	61.11 \$