Sign Language Detection using Computer Vision

Triboi Maria-Emanuela, G.1B, Cl

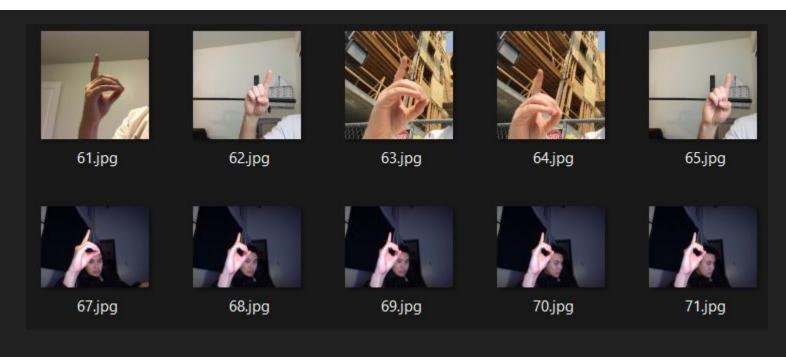
Objectives

- Only 9 letters: A I
- Different methods:
 - Template matching
 - CNNs
- Explore different enhancements techniques
 - Learning rate and epochs scheduling
 - Data augmentation

ASL(American Sign Language) Alphabet Dataset

ASL images for classification





Sign Language Recognition using CNNs - steps

- 1. Image pre-processing
- 2. Model architecture
- 3. Data Augmentation
- 4. Model Training + Evaluation
- 5. Learning Rate Adjustment
- Best Model Evaluation

Enhancements

- Data augmentation
- Learning rate and epochs scheduling