ASL Sign Language Recognition Using CNNs

Image Classification for Fingerspelling

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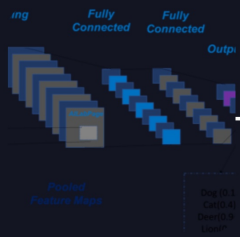
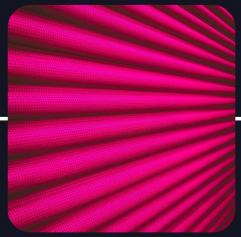
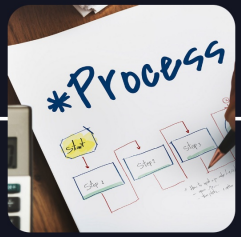
Model & Methodology



Architecture: CNN with multiple convolutional + pooling layers

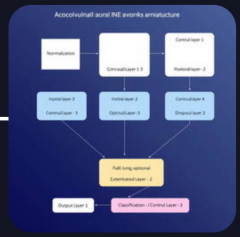


Input Data: Trained on 160x160 RGB images



Data Preprocessing: normalization, augmentation

Training Details: batch size, epochs, learning rate



Model Pipeline: Diagram or flowchart of the model

Results & Accuracy

Final accuracy: 92.6% on validation.
Description of a primary heading

Use of early stopping, learning rate scheduler.
Description of a primary heading

Highlight validation loss vs. accuracy graph.
Description of a primary heading

Visual: training/validation graph or confusion matrix.
Description of a primary heading