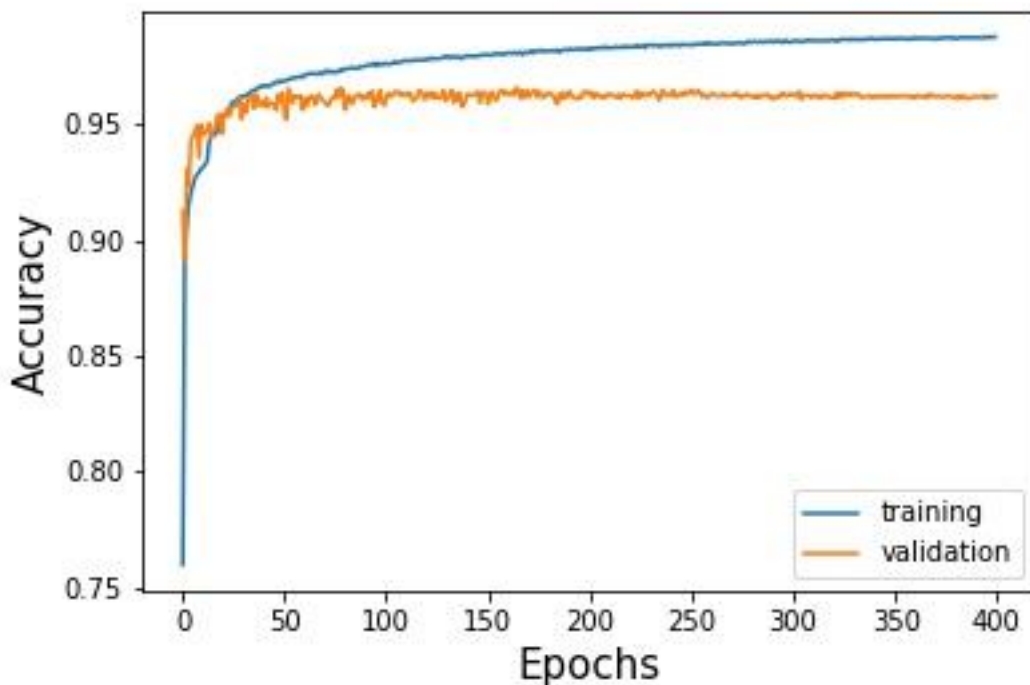**University of Stuttgart**
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Knuckle Input

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Current Status: CNN

- Current best model

- Cross Validation:
  - Acc: 0.9593
  - Val. Acc: 0.9189
- Trying to find wrongly labeled images with model.predict to improve our blob detection

Current Status: LSTM

- Basic structure is working
- Input: Every blob between the first and last blob detected for one gesture
- Currently trying to work with fixed window size (50)
- Might want to try with non-fixed window size

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Current Status: Data

- Augmented the data by flipping the images (4 times the data for CNN only)
  - Validation only with non-augmented data
- Removed some gestures, because of model.predict results
- Can improve blob detection
  - Sometimes when 2 blobs where very close to each other, it would be detected as one blob
  - Sometimes very small blobs

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Current Status: Evaluation App

- App to live test our model(s)
- Model is imported in the app
- Blob detection in progress:
  - Have to write the same blob detection in java, which we used for preprocessing the data for model training
- Blob extraction working