**SIGN LANGUAGE CAPSTONE  
RELEVANT LINKS**

**Articles (other ppl who did a similar proj)**

* <https://www.analyticsvidhya.com/blog/2021/06/sign-language-recognition-for-computer-vision-enthusiasts/>
* **Building a Singapore Sign Language (SgSL) recognition model with OpenCV and MediaPipe**<https://debby-ling.medium.com/building-a-singapore-sign-language-sgsl-recognition-model-with-opencv-and-mediapipe-7d8a36f35cbd>
* <https://www.youtube.com/watch?v=doDUihpj6ro&t=4888s>
* **Sign2Speak! Synthesising Emotional Speech from Singapore Sign Language through Deep Learning**<https://www.dsta.gov.sg/ydsp/projects/files/reports/DSO%2006%20Sign2Speak%20Automated%20Speech%20Synthesis%20from%20Sign%20Language%20through%20Deep%20Learning.pdf>
* <https://www.kaggle.com/code/hamzamanssor/asl-alphabet-detection-using-dl-models>
* <https://towardsdatascience.com/sign-language-recognition-with-advanced-computer-vision-7b74f20f3442>

**About Sign Language (SGSL)**

* <https://blogs.ntu.edu.sg/sgslsignbank/language-parameters/>
* [**https://www.frontiersin.org/articles/10.3389/fcomm.2021.748578/full**](https://www.frontiersin.org/articles/10.3389/fcomm.2021.748578/full)

**Why fingerspelling is important**

* <https://www.researchgate.net/publication/236762425_How_the_Alphabet_Came_to_Be_Used_in_a_Sign_Language>

**Datasets**

<https://huggingface.co/datasets/Francesco/sign-language-sokdr>

<https://www.kaggle.com/datasets/waseemnagahhenes/sign-language-dataset-wlasl-videos>

<https://www.kaggle.com/datasets/debashishsau/aslamerican-sign-language-aplhabet-dataset/code?resource=download> **(USED THIS)**

<https://www.kaggle.com/code/hamzamanssor/asl-alphabet-detection-using-dl-models>

<https://www.kaggle.com/competitions/asl-fingerspelling/data>

**Used for test**

<https://www.kaggle.com/datasets/danrasband/asl-alphabet-test> **https://www.kaggle.com/datasets/prathumarikeri/american-sign-language-09az**

**Context**

<https://mothership.sg/2017/11/sign-language-instructor-on-channel-8-show-demonstrated-inaccurate-signs/>

<https://www.smithsonianmag.com/innovation/sign-language-translators-are-cool-but-are-they-useful-180971535/>

<https://www.linkedin.com/pulse/rise-intelligent-machines-why-ai-exploding-2023-susan-lindeque/>

<https://www.forbes.com/sites/stevenaquino/2021/04/06/tiktok-makes-videos-more-inclusive-of-and-accessible-to-deaf-people-with-new-auto-captions-feature/?sh=3e8c08823345>

<https://www.thoughtworks.com/en-sg/insights/blog/captioning-making-world-more-inclusive-place>

<https://newsroom.tiktok.com/en-gb/auto-captions-on-tiktok>

<https://www.linkedin.com/pulse/rise-artificial-intelligence-why-matters-alexander-stahl/>

<https://www.innocaption.com/recentnews/ai-helps-deaf-hard-of-hearing-community>

**MODELS, METRICS**

<https://towardsdatascience.com/understand-your-algorithm-with-grad-cam-d3b62fce353>

<https://towardsdatascience.com/deep-dive-into-the-computer-vision-world-f35cd7349e16>

<https://towardsdatascience.com/the-w3h-of-alexnet-vggnet-resnet-and-inception-7baaaecccc96>

<https://www.sciencedirect.com/science/article/pii/S2352914822002131>

<https://datagen.tech/guides/computer-vision/vgg16/>