

Advanced Machine Learning - Ghosh - MIS 382N - Fall 2021 Term Project

Shreya Bhootda, Casey Copeland, Ankita Kundra, Yanqi (Eden) Liang

Works Cited

- Chen, Yen-Chun. "UNITER: UNiversal Image-TEXT Representation Learning." *ArXiv*, Cornell University, Sept. 2019.
- "Detectron2: A PyTorch-Based Modular Object Detection Library." *Facebook AI*, <https://ai.facebook.com/blog/-detectron2-a-pytorch-based-modular-object-detection-library-/>. Accessed 26 Oct. 2021.
- DrivenData. "Competition: Hateful Memes: Phase 1." *DrivenData*, <https://www.drivendata.org/competitions/64/hateful-memes/>. Accessed 26 Oct. 2021.
- DrivenDataOrg. "GitHub - Drivendataorg/Hateful-Memes." *GitHub*, <https://github.com/drivendataorg/hateful-memes/>. Accessed 26 Oct. 2021.
- Fayçal, Arbai. "Multimodal Learning: A Comparison of New Pretrained Visio-Linguistic Models | by Arbai Fayçal | Medium." *Medium*, Medium, 16 Feb. 2020, <https://medium.com/@ArbFay/multimodal-learning-a-comparison-of-new-pretrained-visio-linguistic-models-9b03bb87fd93>.
- Han, Xu. "Pre-Trained Models: Past, Present and Future." *ArXiv*, Cornell Univerity, Aug. 2021.
- "Hateful Memes Challenge and Dataset." *Facebook AI*, <http://ai.facebook.com/blog/hateful-memes-challenge-and-data-set/>. Accessed 29 Nov. 2021.
- HimariO. "GitHub - HimariO/HatefulMemesChallenge." *GitHub*, <https://github.com/HimariO/HatefulMemesChallenge>. Accessed 26 Oct. 2021.
- Honchar, Alexandr. "Neural Networks for Algorithmic Trading. Multimodal and Multitask Deep Learning | by Alexandr Honchar | Becoming Human: Artificial Intelligence Magazine." *Medium*, Becoming Human: Artificial Intelligence Magazine, 9 July 2017, <https://becominghuman.ai/neural-networks-for-algorithmic-trading-multimodal-and-multitask-deep-learning-5498e0098caf>.
- Kärkkäinen, Kimmo. "[1908.04913] FairFace: Face Attribute Dataset for Balanced Race, Gender, and Age." *ArXiv.Org*, <https://arxiv.org/abs/1908.04913>. Accessed 10 Dec. 2021.
- Kiela, Douw, et al. *The Hateful Memes Challenge: Competition Report*. 2020.
- Li, Chunyuan. "Objects Are the Secret Key to Revealing the World between Vision and Language - Microsoft Research." *Microsoft Research*, <https://www.facebook.com/microsoftresearch/>, 15 May 2020, <https://www.microsoft.com/en-us/research/blog/objects-are-the-secret-key-to-revealing-the-world-between-vision-and-language/>.
- Li, Xiujun. "Oscar: Object-Semantics Aligned Pre-Training for Vision-Language Tasks." *ArXiv*, Cornell University, Apr. 2020.

- Microsoft. "GitHub - Microsoft/Oscar: Oscar and VinVL." *GitHub*, <https://github.com/microsoft/Oscar>. Accessed 29 Nov. 2021.
- Muennighoff. "GitHub - Muennighoff/Vilio: 🤖 Vilio: State-of-the-Art VL Models in PyTorch & PaddlePaddle." *GitHub*, <https://github.com/Muennighoff/vilio>. Accessed 26 Oct. 2021.
- Research, Facebook. "GitHub - Facebookresearch/Detectron2: Detectron2 Is a Platform for Object Detection, Segmentation and Other Visual Recognition Tasks." *GitHub*, <https://github.com/facebookresearch/detectron2>. Accessed 29 Nov. 2021.
- . "GitHub - Facebookresearch/Detectron2: Detectron2 Is FAIR's next-Generation Platform for Object Detection, Segmentation and Other Visual Recognition Tasks." *GitHub*, <https://github.com/facebookresearch/detectron2>. Accessed 26 Oct. 2021.
- . "Mmf/Projects/Hateful_memes at Main · Facebookresearch/Mmf · GitHub." *GitHub*, https://github.com/facebookresearch/mmf/tree/main/projects/hateful_memes. Accessed 26 Oct. 2021.
- Shulga, Dima. "BERT to the Rescue!. A Step-by-Step Tutorial on Simple Text... | by Dima Shulga | Towards Data Science." *Medium*, Towards Data Science, 5 June 2019, <https://towardsdatascience.com/bert-to-the-rescue-17671379687f>.
- Su, Weijie. "VL-BERT: Pre-Training of Generic Visual-Linguistic Representations." *ArXiv*, Cornell University, Aug. 2019.
- "VisualBERT — Transformers 4.11.3 Documentation." *Hugging Face – The AI Community Building the Future.*, https://huggingface.co/transformers/model_doc/visual_bert.html. Accessed 26 Oct. 2021.
- Wiggers, Kyle. "AI Still Struggles to Recognize Hateful Memes, but It's Slowly Improving | VentureBeat." *VentureBeat*, VentureBeat, 1 Dec. 2020, <https://venturebeat.com/2020/12/01/ai-still-struggles-to-recognize-hateful-memes-but-its-slowly-improving/>.
- Yu, Fei. "ERNIE-ViL: Knowledge Enhanced Vision-Language Representations Through Scene Graph." *ArXiv*, Cornell University, June 2020.