

Yusuf Shihata

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Experience

OPEN-SOURCE DEVELOPER | HUGGINGFACE | JUNE 2025 – PRESENT

- **Fixed** critical bugs in the QA pipeline.
- Adding new models to expand the library.
- Helped in the documentation process of new models.
- Working on adding new features to the core library.

Projects

IMDB MOVIE REVIEWS SENTIMENT ANALYZER

- Implementing an Encoder Transformer from scratch using only PyTorch.
- Applied the model to the IMDB movie review dataset as a benchmark.
- The model achieved **84%** accuracy after only **5 epochs** of training.
- Deploying the model using Streamlit.

HIGH RESOLUTION IMAGE GENERATOR

- Implementing the model from the paper Diffusion-GAN: Training GANs with Diffusion.
- Training the model on CIFAR-10 and MNIST datasets.
- Achieving high quality generated images.

PRE-TRAINED IMAGE CLASSIFIER

- Implementing a Vision Transformer (ViT) from scratch using PyTorch.
- Pretrained the ViT on toy datasets.
- Prepared the model for fine-tuning on downstream classification tasks.

Skills & Abilities

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| • Python & C++ | • Machine Learning & Deep Learning |
| • Parallel Programming with CUDA | • Software Design and Architecture |
| • Databases & SQL | • Research |

Education

KAFR ASH SHAYKH UNIVERSITY — BSC ARTIFICIAL INTELLIGENCE

Expected Graduation: 2028

GPA: 3.73