

Week	Day	Topic	Responsible	Resources
3	Tue	Introduction to Generative models+ tools Git, Python, Huggingface, google colabs + Innovation and startups in AI	Benjamin Ricaud/Erlend Gabrielsen	Intro LLM
4	Tue	Introduction to Transformers + Exercises	Helge Fredriksen	Tasks
	Wed	Understanding language models with NanoGPT	Daniel Kaiser	nanoGPT intro
5	Tue	Large language models, Practice: NanoGPT	Daniel Kaiser	nanoGPT Github
	Wed	Wednesday: short overview of AI ethics + continue practice NanoGPT + present text generation web UI/LMstudio	Benjamin Daniel	
6	Tue/ Wed	Interacting with LLMs through basic and advanced prompting methodologies.	Mussarat Hussain (IFI)	Prompting Guide
7	Wed	No lecture on Tuesday 11 (TEKDag) Retrieval Augmented Generation + Large language models and vector databases, Practice: movie recommender system from text	Erlend Grimstad (Abdera AI)	Weaviate Github
8	Tue	RAG part 2	Erlend Grimstad	
	Wed	Large language model, principles, evaluation, ethics. Explain paper on evaluation of LLMs + ethics by PhD students (ex: stochastic parrot)	PhD students	
9	Tue	LLMops + Ollama, llama.cpp, run a local LLM ?	Lars Adrian Giske (ITromsø)	
	Wed	LLMops with use case from ChatUiT	Øysten Tveito (UiT)	Nyhetsartikkel
10	Tue	Fine-tuning models with LoRa	Tor-Arne Nordmo (IFI)	
	Wed	Lora Training	Ernie Roby	
11	Tue	Learning minimally sufficient representations	Changkyu Choi (IFT)	
	Wed	Whisper and speech to text	Tetiana Lutchyn (IFT)	
12	Tue	Foundation models, self-supervised learning and latent representation , inside the AI brain	Benjamin Ricaud or Elisabeth Wetzler	
	Wed	Course project brainstorming and making teams	Benjamin and Helge	
13		Generative AI for images Stable diffusion (introduction, VAE, CLIP)	Kristoffer Wickstrøm (IFT)	https://dataflowr.github.io/website/modules/19-clip/
14		Theory behind diffusion models + programming the vanilla diffusion model from scratch on Pytorch	Filippo Bianchi (IFT)	
15		Introduction to the Diffusers library from Huggingface to implement advanced SOTA diffusion models		
16 & 17		Teams project time		
18		Easter break		
19		Generative image and video practice with Tromsø artists Tvibit , Comfi.ui + Reasoning and AGI	Cris (Tvibit) + Benjamin Ricaud	
19		Project work + Generative AI for videos or multimodal Generative AI		Intro to multimodality