Key takeaways-

Semester log journal (wordpress or github)

AI 900 certified

What are we trying to do with AI?

**AI is all about data: Good, bad, abused, and bad use of data**

**Garbage in garbage out**

Bad data= inco

Ai is;

**ANI (artificial narrow intelligence)**-

Works with limited set of data and gives limited outcome ex tesla car. Made for very specific purpose, works with veru specific input of data

**AGI (artificial general intelligence),**

An application that can do everything a human can do. Its a goal n AI

**Generative AI**

Constantly generating. Text, images, audio and such. Ex chat gpt, gemini

Machine learning- takes input and output to give out an algorithm. data+results= algorithm. Speeds up data processing. The foundation of how computers learn data.

Ex: spam detection (input: email. Output: spam or not. Algorithm: **spam detection**)

ex:(input: audio. Output: caption generation. Algorithm: **speech detection**)

Ex (input: english. Output: chinese. Algorithm: **translation** )

ex(input: ad/user profile. Output: to click or not to click. Algorithm: ad suggestion? )

Ex: (input: car. Output: position of other cars. Algorithm: object detection)

Ex: (input:restaurant reviews application: sentiment analysis)

Generative AI uses supervised learning, but has a version tjat uses neural networks

**Data poisoning (bad data)**: Introducing bad data into a learning system with malicious intent.

**Bad use of good data**: Not doing due diligence in doing role based access control.

**Responsible AI**: hospitals used data to determine how much anestesia a patient would need, it was incorrect, the patient dies.

GPT- generative pre trained transform

Chat gpt does not learn from user prompts

Machine learning learns on live data

Prompt engineering’

Formware: software that doesn't require regular hardware?

Harshud mehta??? (look him up)

Business scenario: maintenance for factory machines

Manual: machine technician servicing to fix machines on call. Reactive maintenance

Automated: scheduled maintenance. Batch processing(software updates). Proactive maintenance

AI: Predictive maintenance. Gets data from maintenance user information

Generative AI: Generating new tasks unthought of. Predictive maintenance plus improving efficiency.

Logs must be protected and unedited

**LLM: Large language model.**  Input data you want to train it on and it learns. (chatgpt 3)

**LMM: Multi morality large language model. (chat gpt 4) advance generation with image and audio and such**

**Huggingphase.com :** uploaded models