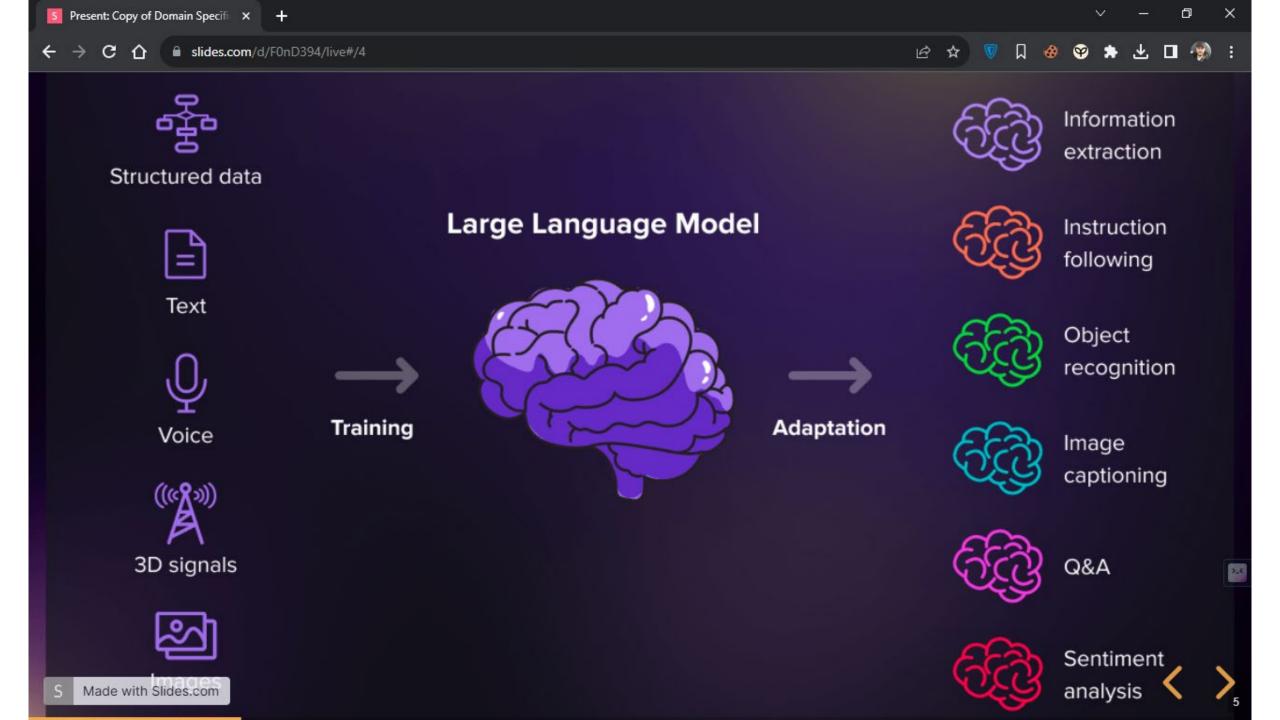
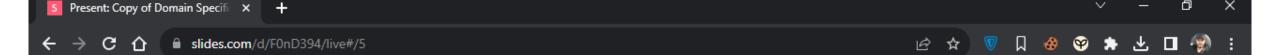


AGENDA

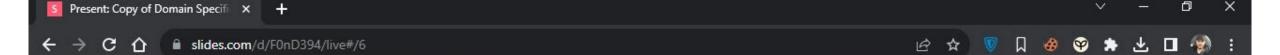
- 1. Large Language Models (LLMs)
- 2. Explainable AI
- 3. Developed Model
- 4. Results
- 5. Conclusion





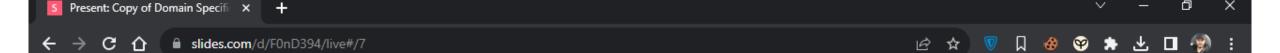
Architecture of LLMs





Transformers

- 1. Layers & Parameters (7B<X<175B)
- 2. Self-Attention Mechanism
- 3. Parallel Processing

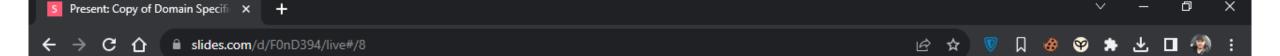


Pre-Training

The model is trained on a large, diverse dataset of text to learn a general understanding of language. This involves unsupervised learning, often using tasks like masked language modeling.

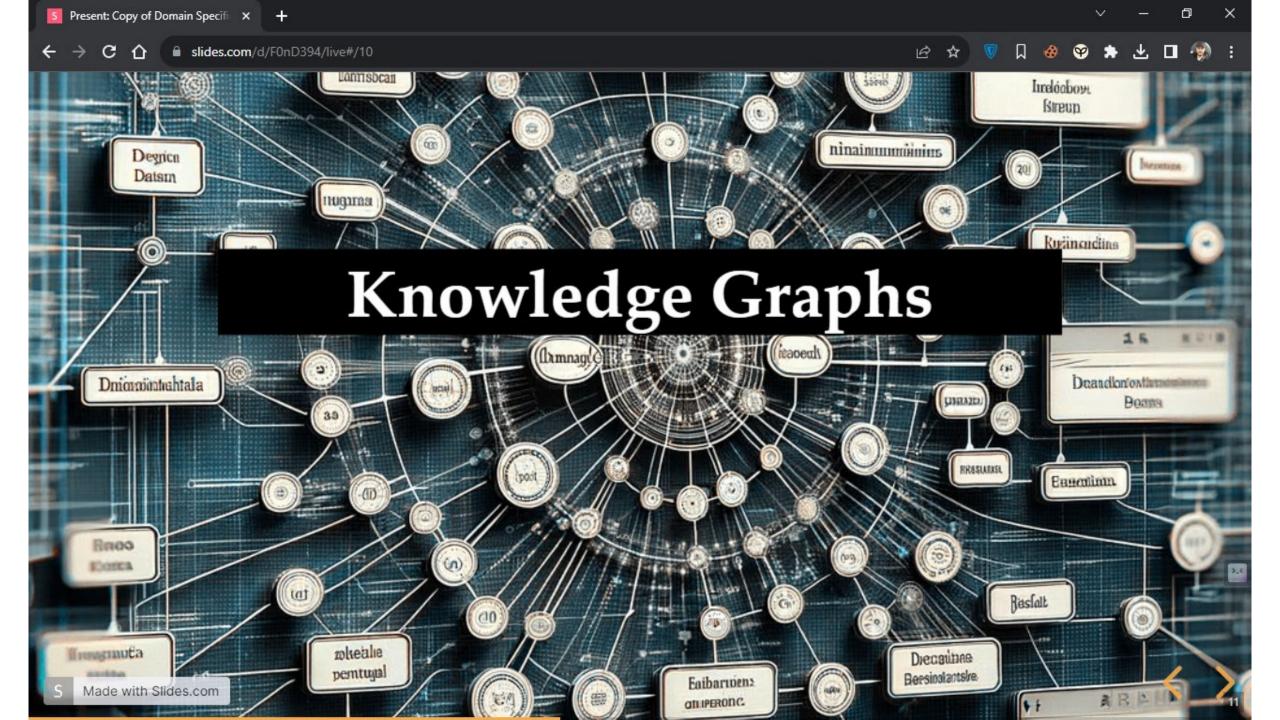
Fine-Tuning

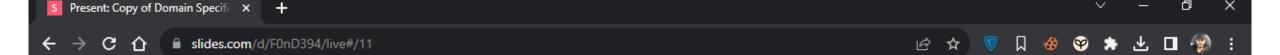
The pre-trained model is further trained on a smaller, task-specific dataset. This step adapts the model to specific applications, such as translation or sentiment analysis.



LLMs Training

- Computational and Environmental Cost
- Data and Bias Concerns
- Maintenance and Updating
- Scalability and Accessibility
- Interpretability and Explainability



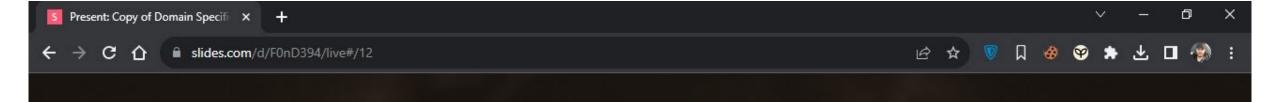


LLMs vs Knowledge Graphs

- Data Handling
- Output
- Flexibility vs. Accuracy
- Use Cases





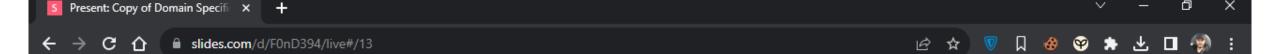


Explainable AI

Interpretable

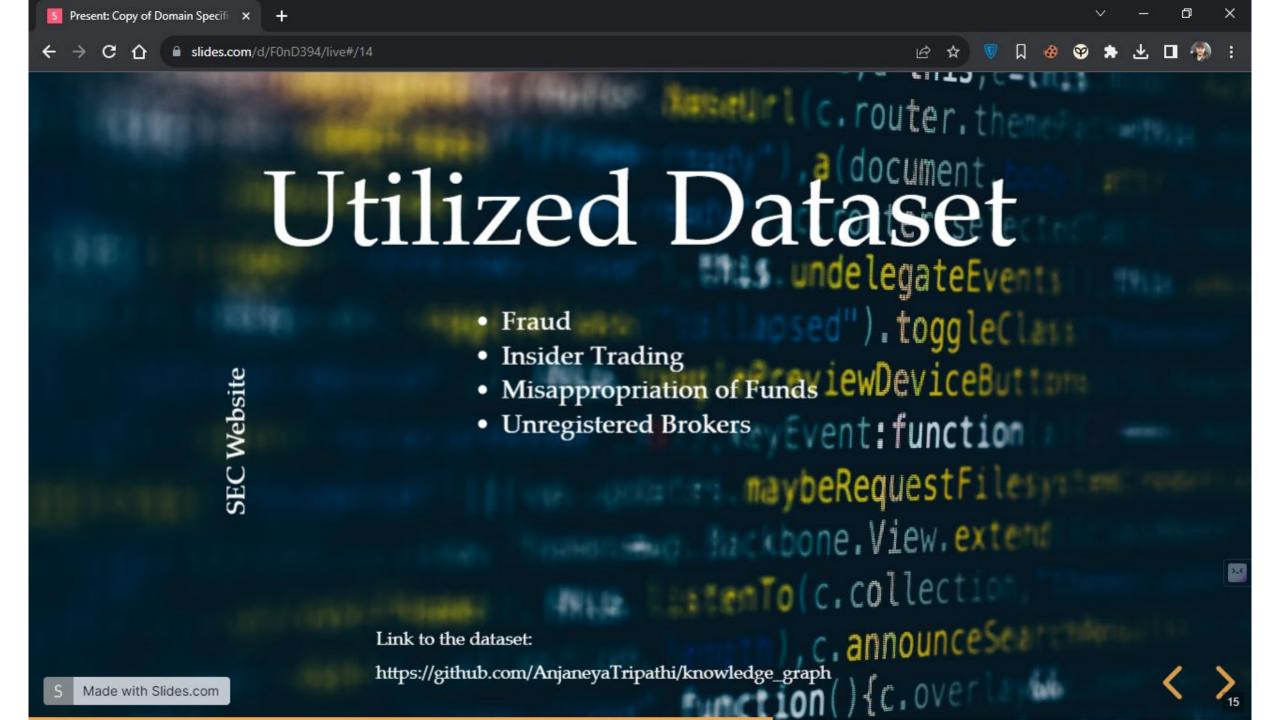
ML/DL/NLP/...

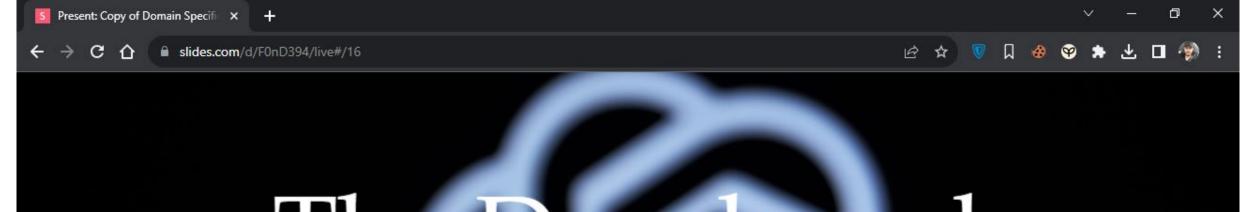




XAI Methodologies in LLMs

- Local/Global Explanation
- Visualization
- Counterfactual Explanation
- Natural Language Explanations



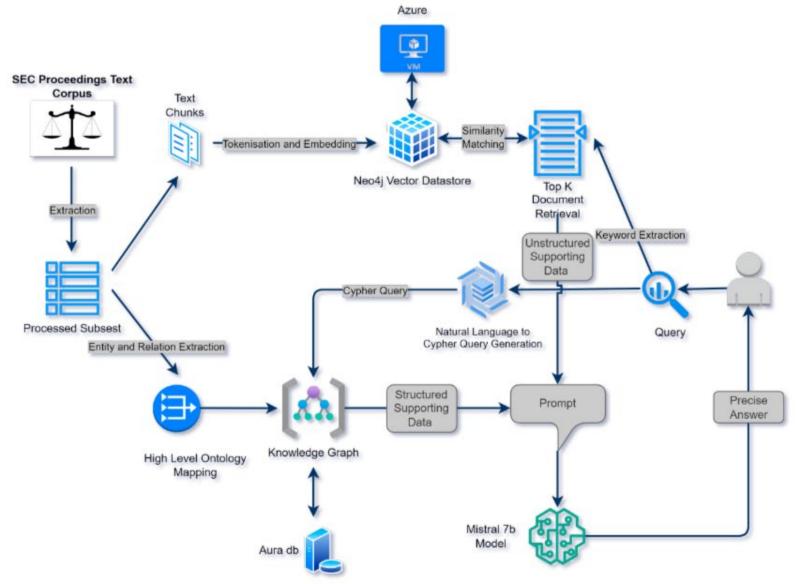


The Developed Model



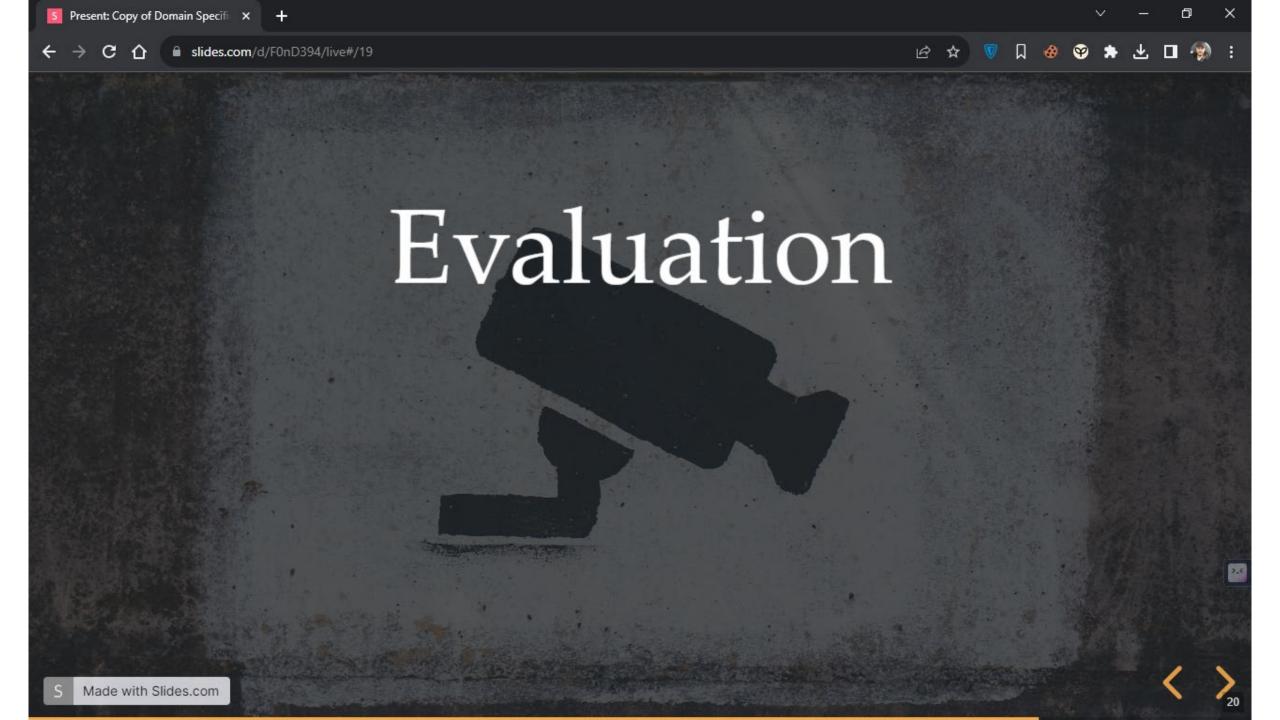


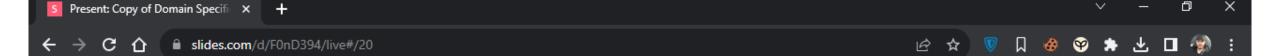




Video's Link

https://www.youtube.com/watch?v=l2R66CndT9I





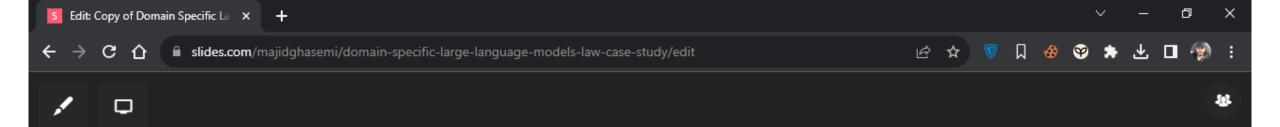
Results



Semantic Similarity Score		Estimated Recall	Estimated F1- Score
0.73	0.63	0.73	0.68







Human Evaluation

70% of the responses generated by the model were accurate

17% of the responses generated by the model were moderately accurate

13% of the responses generated by the model were not entirely accurate

