SNS COLLEGE OF TECHNOLOGY

Coimbatore - 35

23BAT615 – Artificial Intelligence for Managers

Unit III – Unboxing AI & Its Applications

Presented by

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Design Thinker

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Guess the Topic!!!

Deep Learning & Visualization

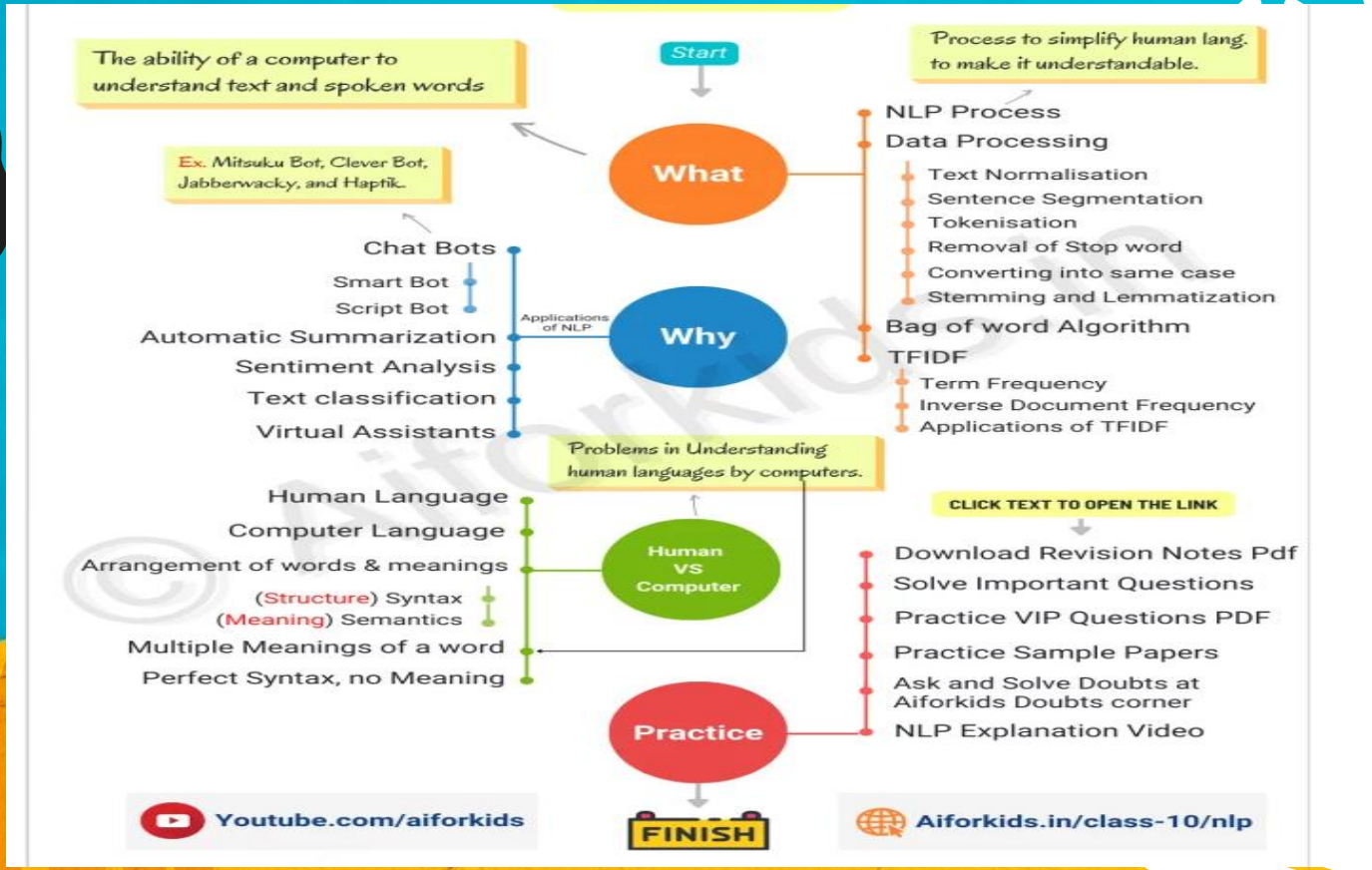
Recap

- Reason to study Deep Learning
- Deep Learning Process
- Deep Learning Workflow
- Deep Learning Example
- Difference between Deep Learning and Machine Learning
- Scaling of Deep Learning with Visualization

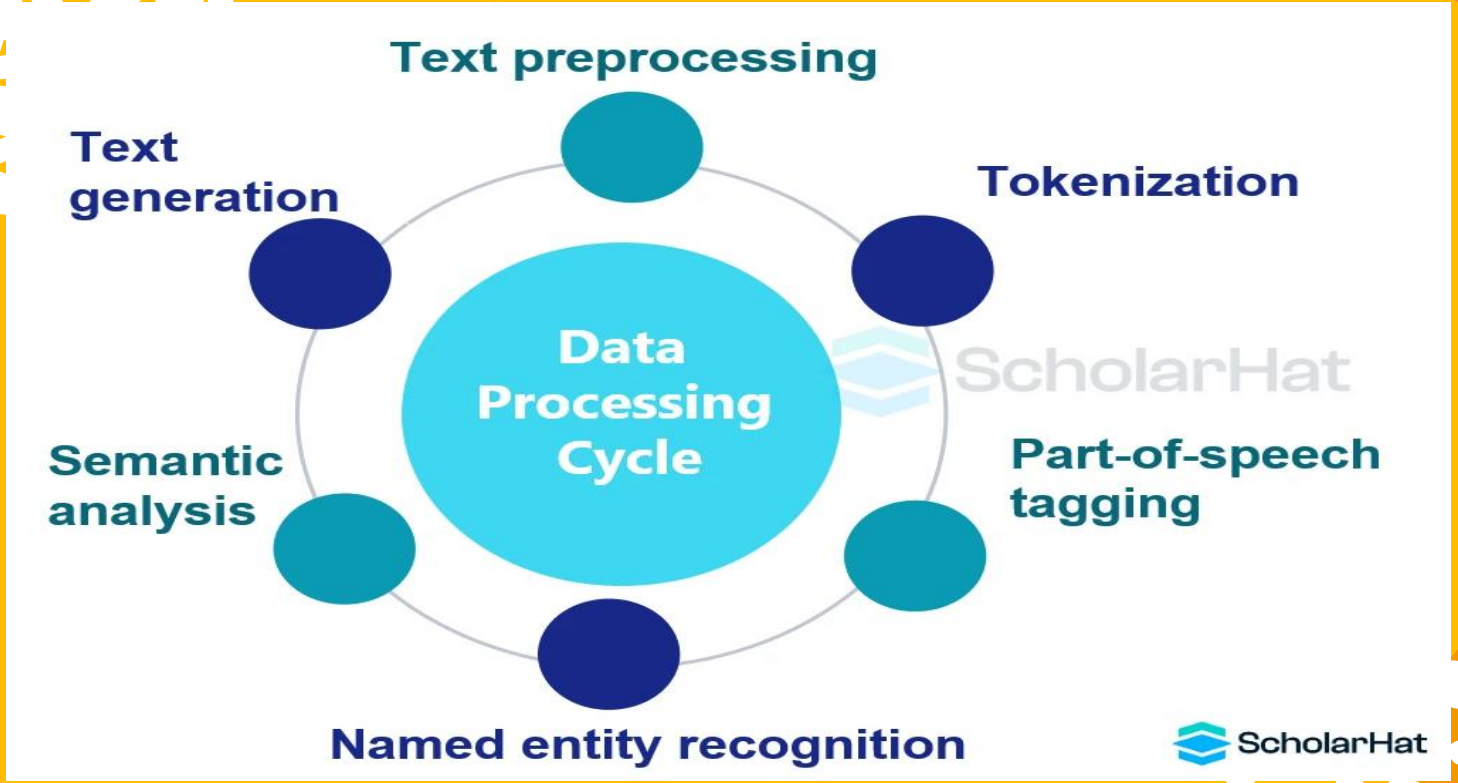
Discussion about….

- Reason to study NLP
- NLP in AI
- NLP
- Top 5 expectation regarding the future of NLP
- Application of NLP

Reason to study NLP



NLP in AI

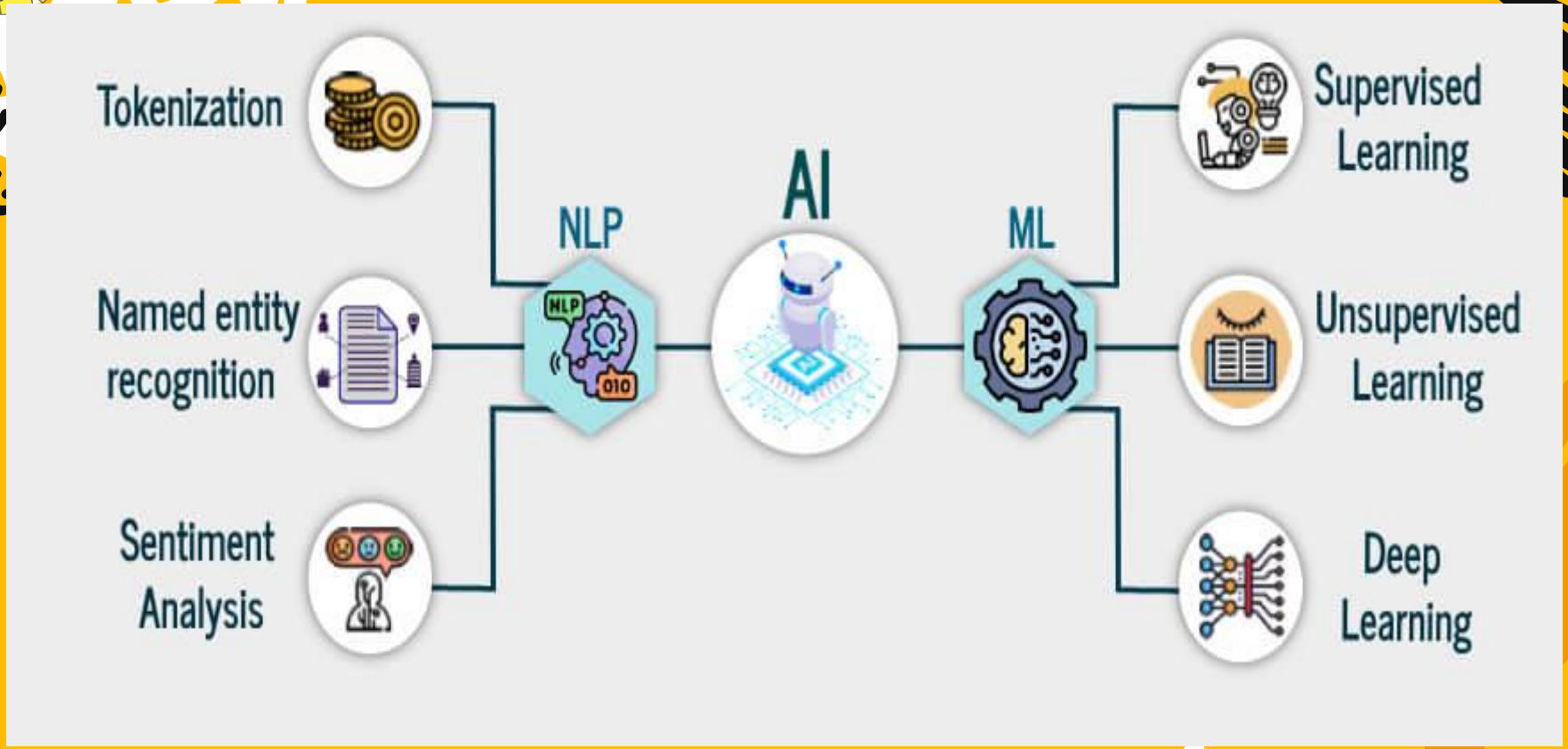

Text preprocessing
Text generation
Tokenization
Data Processing Cycle
Semantic analysis
Part-of-speech tagging
Named entity recognition
ScholarHat
ScholarHat

NLP

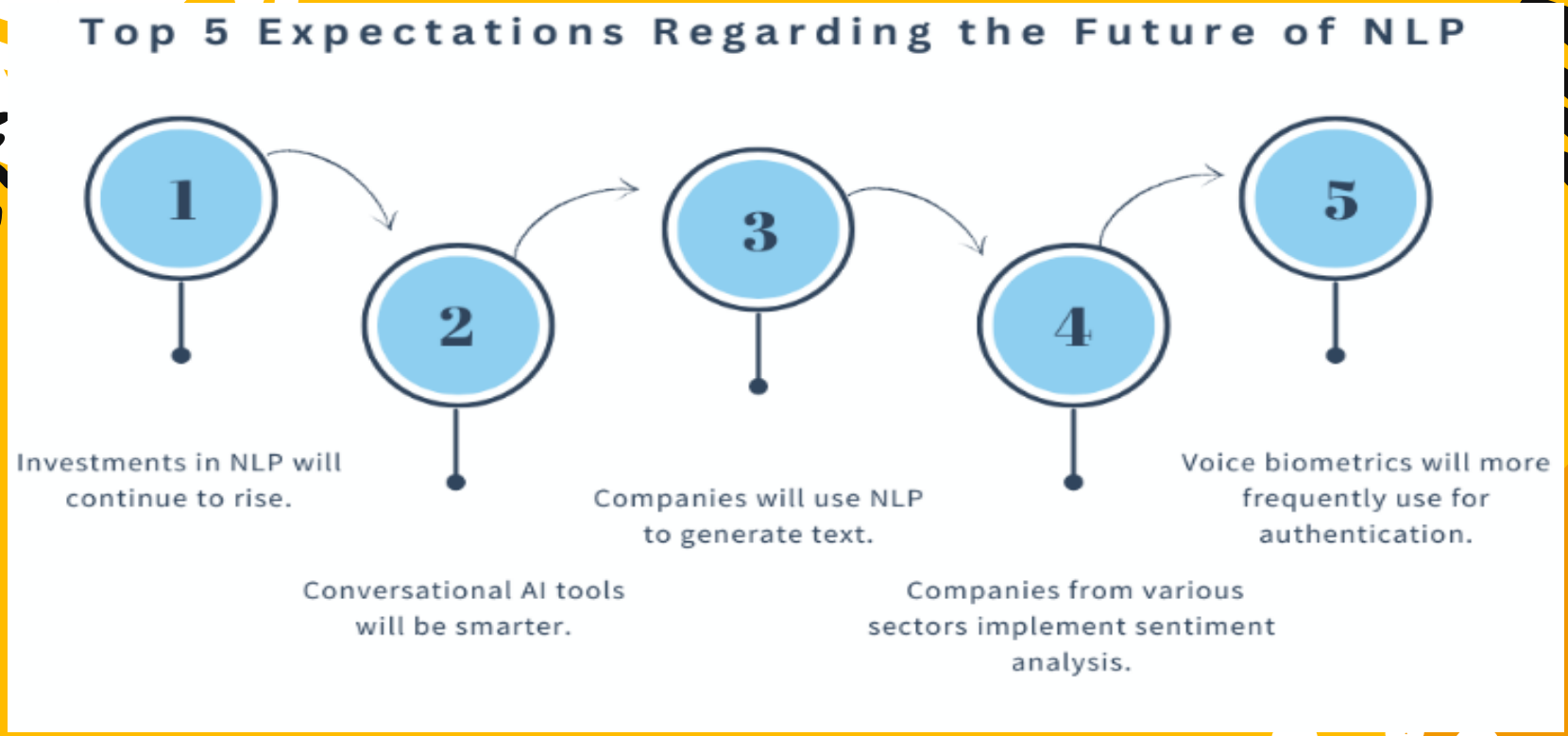
"Natural language processing (NLP) is a field of computer science, artificial intelligence (also called machine learning), and linguistics concerned with the interactions between computers and human (natural) languages.

Specifically, the process of a computer extracting meaningful information from natural language input and/or producing natural language output "

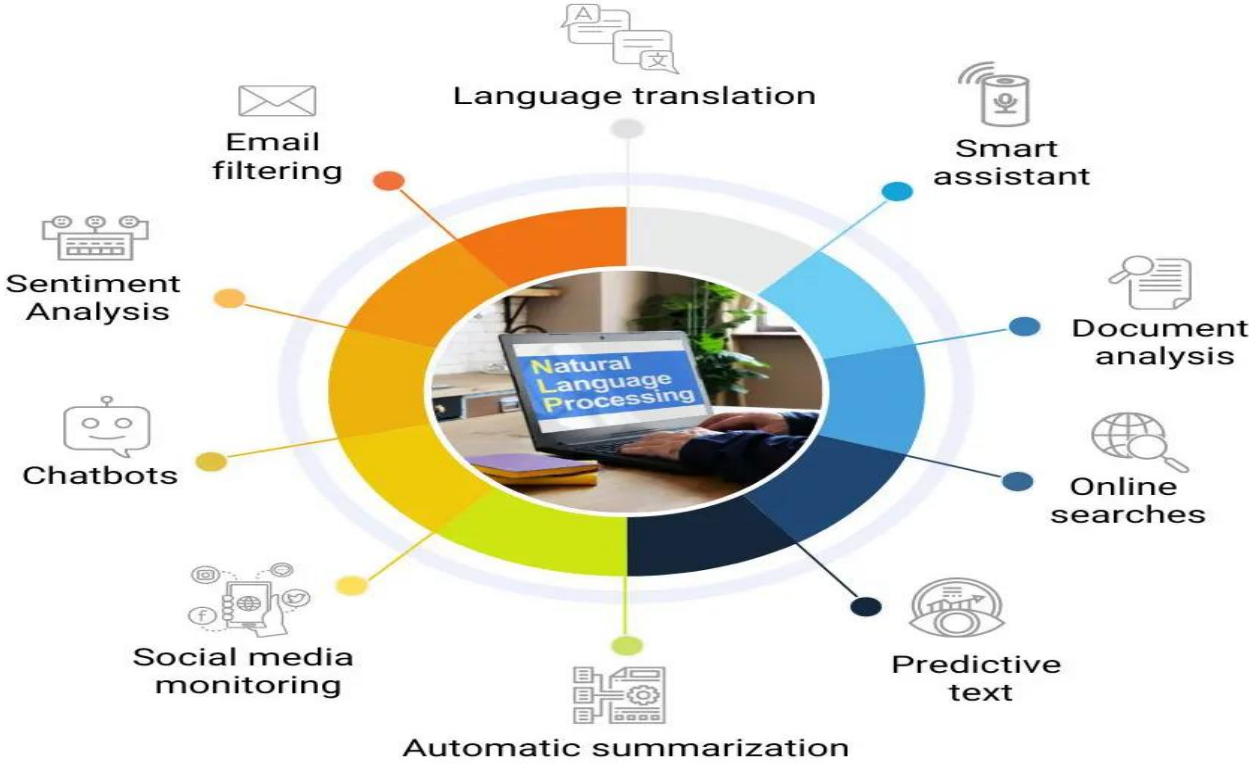
NLP in AI


Tokenization
Named entity recognition
Sentiment Analysis
NLP
AI
ML
Supervised Learning
Unsupervised Learning
Deep Learning

Top 5 Expectations regarding the Future of NLP



Application of NLP



Knowledge Check

In In the application of Natural Language Processing (NLP) within a business environment, which of the following tasks is NLP **least** suited for?

- ✗ A) Sentiment analysis of customer reviews
- ✗ B) Automated generation of financial reports
- ✗ C) Predictive maintenance scheduling
- ✗ D) Chatbot customer service interactions
- ✗ **Answer:** C) Predictive maintenance scheduling

Summary

Reason to study NLP

- NLP in AI
- NLP
- Top 5 expectation regarding the future of NLP
- Application of NLP

References

- https://zortify.com/natural-language-processing-2/#:~:text=Natural%20Language%20Processing%20(NLP)%20is,improve%20communication%2C%20and%20automate%20processes.

Thanks!

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