4 cm A1 Business & SAF

PM-PM

Specialized Tools and Systems

Core AI/ML Concepts

1. AI/ML Basics

- Understand regression, classification, and prediction models.
- Hands-on: Implement basic machine learning models using scikit-learn.

2. Version Control with Git

- Basies of Git: Commits, branches, merges, and workflows.
- Collaboration: Working on group projects using GitHub or Hugging Face Space

3. Introduction to Streamlit

- Building interactive data applications.
- Project: Create a dashboard for an ML model.

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1.NLP Concepts and Deep Learning

- NLP, Encoding, Bag of words, TFIDF, Word2vec Learn tokenization, text embeddings, and fundamental deep learning models.
- Project: Develop a sentiment analysis tool.

2.GenAl Fundamentals and Transformer Architectures

- Detailed study of transformer models and their applications in GenAl.
- Starting the Journey Towards Generative AI (GPT4,Mistral 7B, LLAMA, Hugging Face Open Source LLM Models,Google Palm Model)
- Practical: Implement a simple chatbot using transformers.

1.Langchain Fundamentals

- Introduction to LangSmith and LangServe.
- Use case: Automate a customer service process using Langchain.

2.Vector Databases and Semantic Search

- Learn about embeddings, cosine similarity, and indexing.
- ChromaDB, FAISS, pgvector, HANA Vector Engine
- Exercise: Build a semantic search engine for product descriptions.

3.Local LLM (Llama3, Mistral)

- Deploying local language models and understanding proprietary indices.
- Hands-on: Set up and query a local LLM.

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Advanced AI Techniques

*Please note: Some topics may be changed or added in the final version





Lecture

Tokenization / 0

Lemmah tahim / 0

Vectorization / 0

Similarity search o

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1. Python Basics

Pandas).

Data types, control

structures, functions, and

basic libraries (NumPy,

Exercises and projects:

manipulate data and

Understanding of SQL

syntax, queries, joins,

and database design.

a small database.

· Practice: Build and query

Foundation Skills

Small scripts to

perform simple

calculations.

2 SQL Basics

= FAQ / KBA Bot (chal)

-> SAP BTP

SAT

How to create Sales order in SAP How can I generall a customer Invite in SAP What is the process to place a purchase order



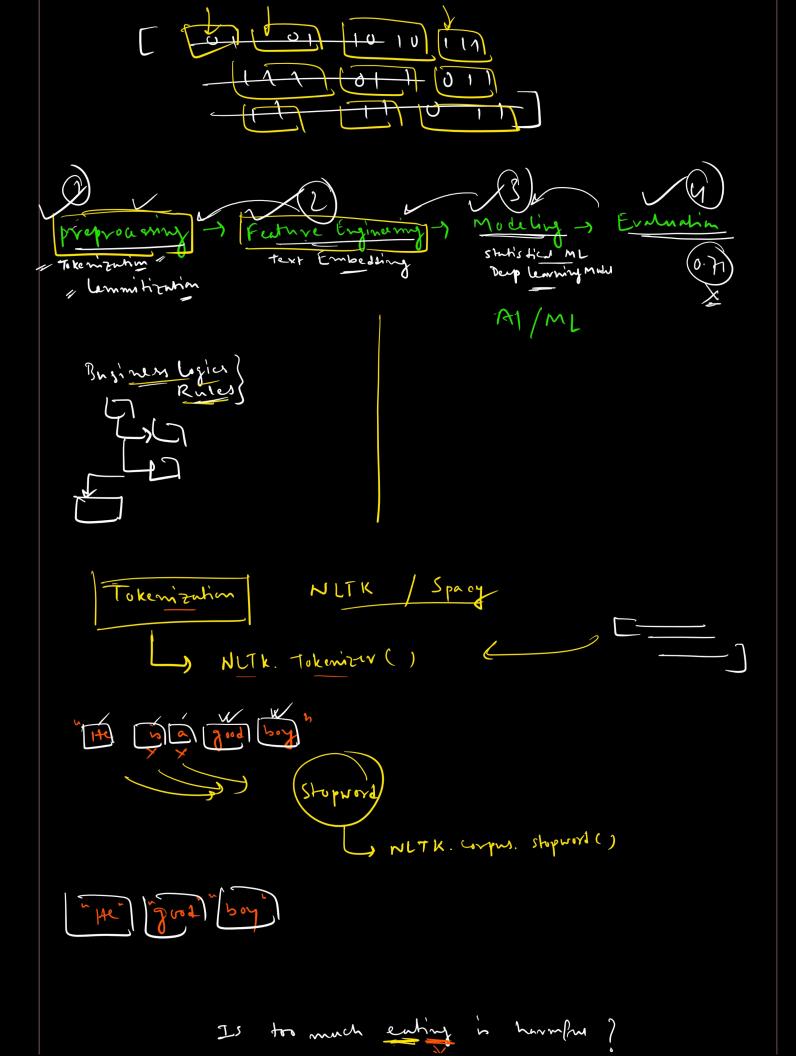


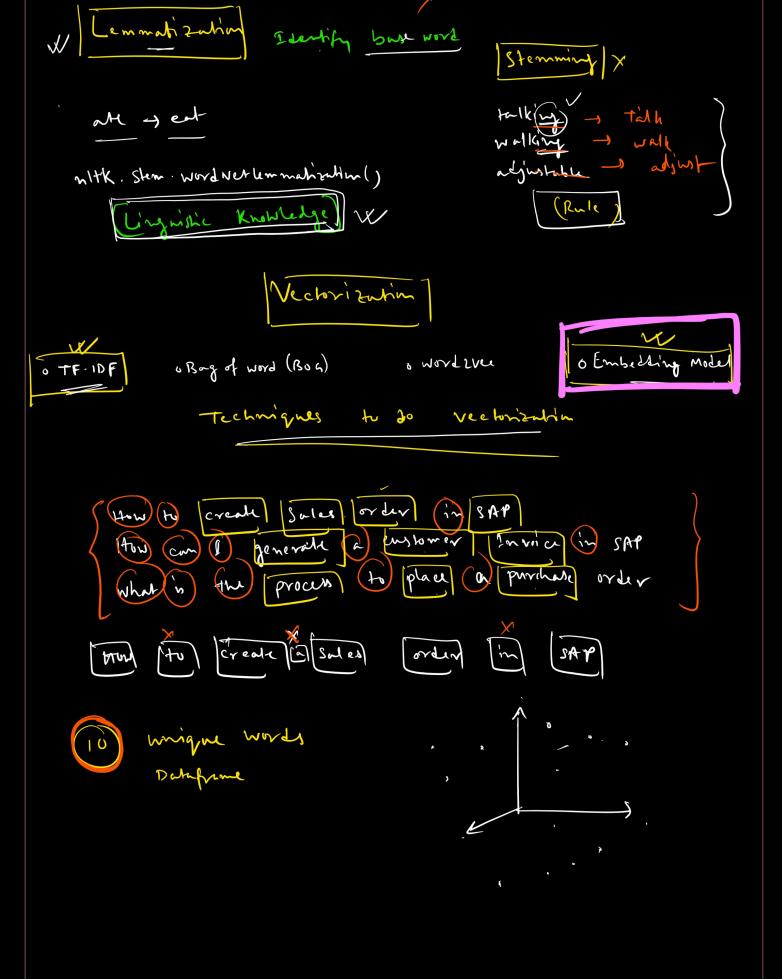


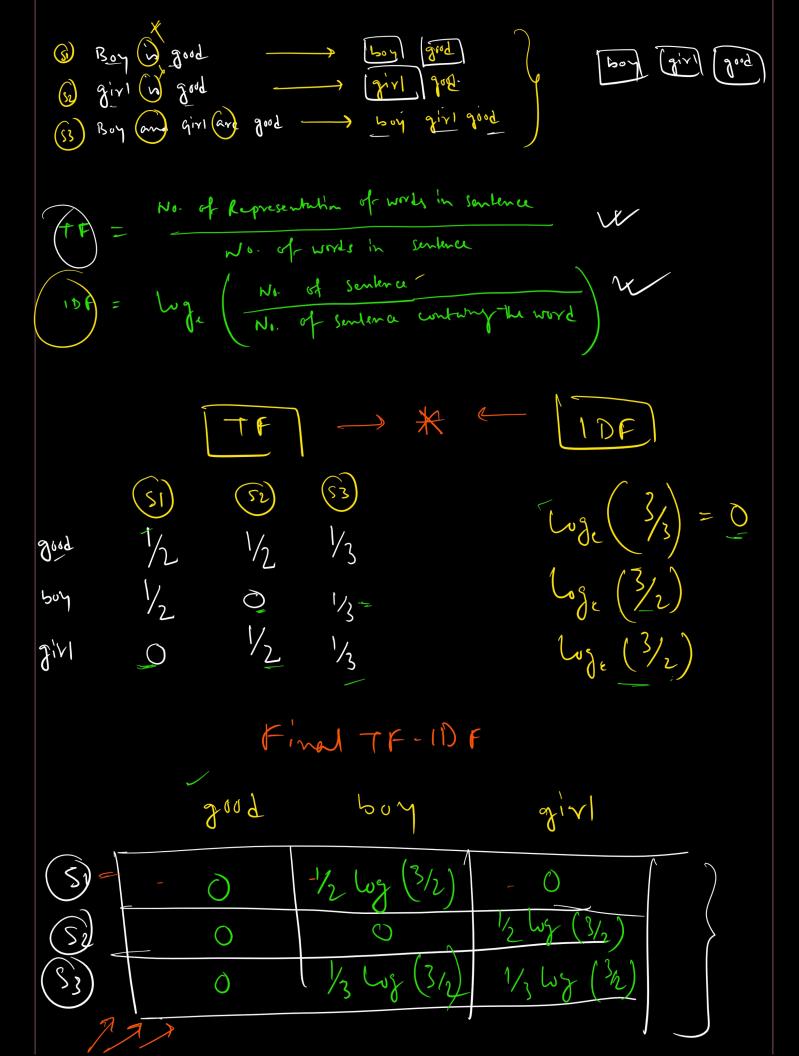


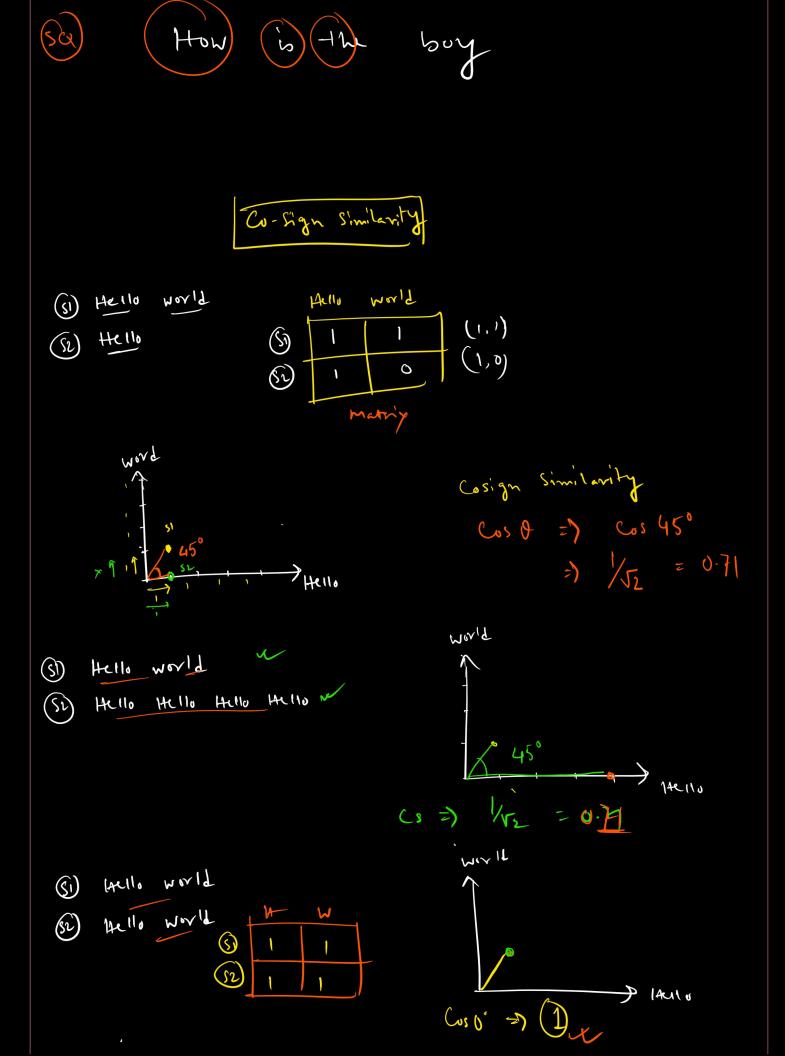


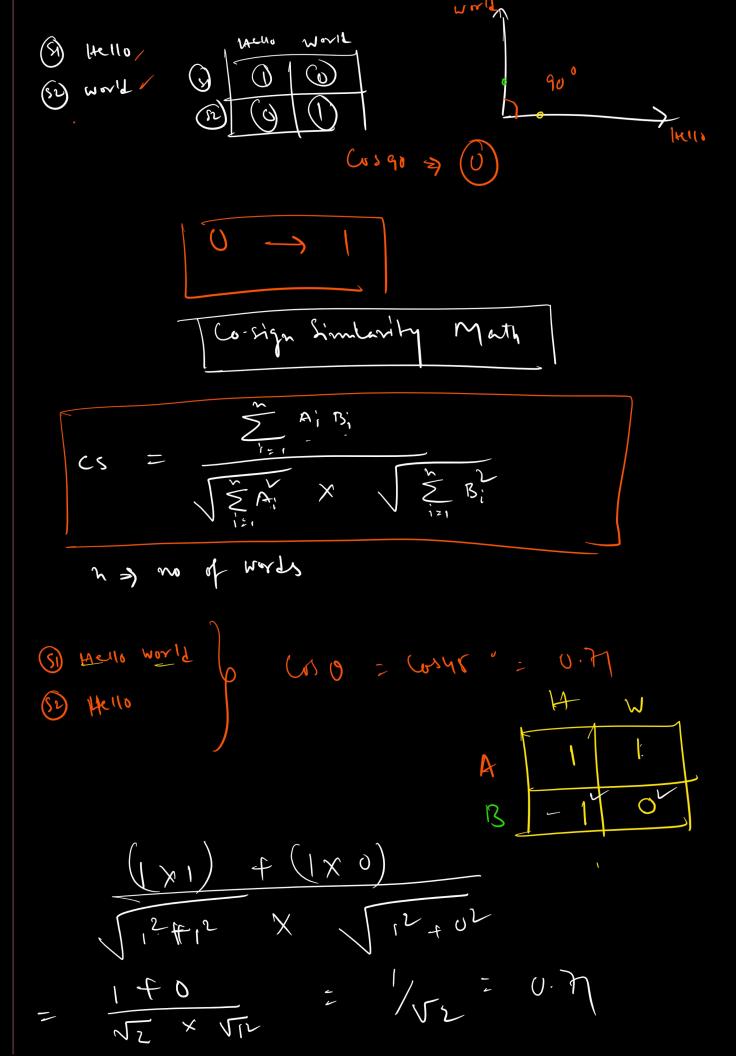












$$CS = \frac{\sum_{i=1}^{n} A_i B_i}{\sum_{i=1}^{n} A_i^* X} \sqrt{\sum_{i=1}^{n} B_i^*}$$

How to creak sales order

How to creak purchase order

4 umque Words