Book Recommender using NLP

Carsten Lydeking

Zealand Business College

Oral Exam – Al and ML, 4th Semester

Motivation and Problem

- ► Can we deploy ML-based recommendation systems locally?
- ▶ This project explores fully offline, content-based recommendations.
- ▶ Embeds books and user queries in the same semantic space.

Methodology

- ► Research-based prototype with empirical testing.
- ► Key tools:
 - MiniLM for sentence embeddings.
 - ► BART-MNLI for category inference.
 - ► FAISS for vector similarity search.
 - ► Streamlit for UI.

System Architecture

