Topic 12: Vector Database

1. What is a Vector Database? An easy-to-follow introduction to vector databases, explaining how they store AI embeddings for fast similarity search: https://www.pinecone.io/learn/series/faiss/vector-indexes/
2. Beginner-friendly overview of vector databases: https://weaviate.io/blog/what-is-a-vector-database
3. What is a Vector Database? A high-level video introduction that demystifies vector databases: https://www.youtube.com/watch?v=He4Ft2lzNwc
4. A comprehensive overview of vector search indexes: https://www.pinecone.io/learn/series/faiss/vector-indexes/
5. An insight into the production challenges of vector search. Explains why simply plugging in a "great" ANN algorithm like HNSW isn't sufficient for scalable systems: https://www.pinecone.io/learn/series/faiss/vector-indexes/
6. A Complete Guide to Filtering in Vector Search: A detailed tutorial on using metadata filters to refine vector search results: https://qdrant.tech/articles/vector-search-filtering/
7. Google's ScaNN: https://github.com/google-research/google-research/tree/master/scann
8. Meta's FAISS: https://github.com/facebookresearch/faiss