

FAISS:

What is FAISS?

FAISS – Facebook AI Similarity Search for High-Speed Vector Search

- Developed by Meta AI.
- C++ library with Python bindings.
- Built for fast nearest-neighbor search.
- Great for offline/local applications.
- Highly customizable indexing strategies.



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Key Features of FAISS

- Blazing Fast:** CPU/GPU acceleration.
- Flexible Index Types:** Flat, IVFFlat, HNSW, PQ, etc.
- Exact or Approximate Search.**
- Low-level Control:** Perfect for researchers and engineers.
- No internet needed:** Works fully offline.



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Use Cases for FAISS

- Offline document search.
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- Mobile or edge AI models.
- Fast search in recommender systems.
- Embedding visualization with t-SNE, PCA.

FAISS
Scalable Search With Facebook AI

