

AI Internship Intelligence System

Flowchart & Architecture Diagram

System Flowchart

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| User Uploads Resume |
| PDF Text Extraction (pdfplumber) |
| Sentence-BERT Model Converts Text → Embeddings |
| Compare with Internship Embeddings |
| Cosine Similarity Calculation |
| Top Matches Selected |
| Results Sent to React Dashboard |

System Architecture

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|--------------------|----------------------------------|
| Frontend | React Dashboard |
| Backend API | FastAPI |
| AI Model | Sentence-BERT (all-MiniLM-L6-v2) |
| Algorithm | Cosine Similarity |
| Dataset | AICTE Internship Dataset |
| Embeddings Storage | Precomputed Vector Embeddings |

| Output | Top Internship Recommendations |
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