FAISS K-Means "guestion id": "Q1234", "candidate\_id": "C5678", "short\_answer": "Microservices enable scalable applications", "created\_timestamp": "2024-02-14T10:30:00Z", Send grading, feedback back into the database Aptitude Test Ungraded Database Embedding model Aptitude Manual Capture (Short Answer) SBERT "question\_id": "Q1234", "question\_id": "Q1234", "short\_answer": "Microservices enable scalable applications", "candidate\_id": "C5678", "grade": 85, "expert\_feedback": "Good response, but missing discussion on trade-offs", "short\_answer": "Microservices enable scalable applications", "embedding": [Vector Representation] "expert\_feedback": "Good response, but missing discussion on trade-offs", Retrieve similar graded answers "grading\_timestamp": "2024-02-14T10:30:00Z", Train evaluator model to assess quality of grading and "reviewed\_by\_human": true, provide a confidence metric "confidence": "75", "embedding": [0.023, -0.672, 1.204, 0.399, -0.762, ...] Candidate Answer Search Engine WEAVIATE Sends candidate short answers to be graded Grade Processing & LLM Model Assignment Module Claude 3.5 Sonnet Matches the short answer with question id and candidate id in the Ungraded database and assigns the grade to the Pass the output of the model into the evaluator Manual approval of low confidence grading specific candidate Generate structured XML prompt by staying under the the token limit "grade": 65, "feedback": "Your answer correctly identifies that microservices can improve Prompt orchestrator function Lightweight LLM Evaluator performance. However, it lacks depth. Consider explaining how microservices achieve this (e.g., load balancing, horizontal scaling) and acknowledging the trade-offs, such as complexity and inter-service communication overhead.", "confidence": 72 Add confidence of the grade alloted Output Filtering & Validation Guardrails Al Autograde answers which have confidence above 80% Ensures structured, valid outputs short\_answer": "Microservices improve scalability.", "grade": 92, "feedback": "Excellent response! You correctly explained that microservices improve scalability by allowing independent deployment. However, you could have further elaborated on challenges like data consistency and network overhead.", "confidence": 87

Candidate Status Service

Embed and Cluster similiar ungraded answers together to be sent as one prompt to the

LLM model