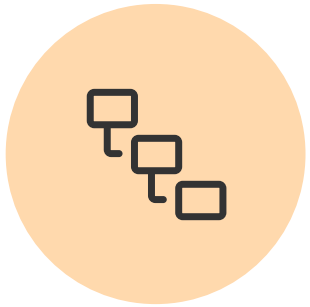
TasteTrend Analytics – AWS GenAI Proof of Concept (PoC)

Introducing a powerful AI-driven platform that transforms fragmented restaurant reviews into actionable business intelligence.

Client Problem & Objective

Fragmented review data

Restaurant reviews scattered across multiple platforms and channels, making it difficult to gather comprehensive insights.



Lack of actionable insights

Existing review analysis tools provide generic feedback, feedback, lacking the ability to generate meaningful, meaningful, business-relevant insights.

TasteTrend's goal is to turn this fragmented review data into actionable business intelligence, empowering empowering restaurants to make informed decisions and improve customer experiences.

Project Scope

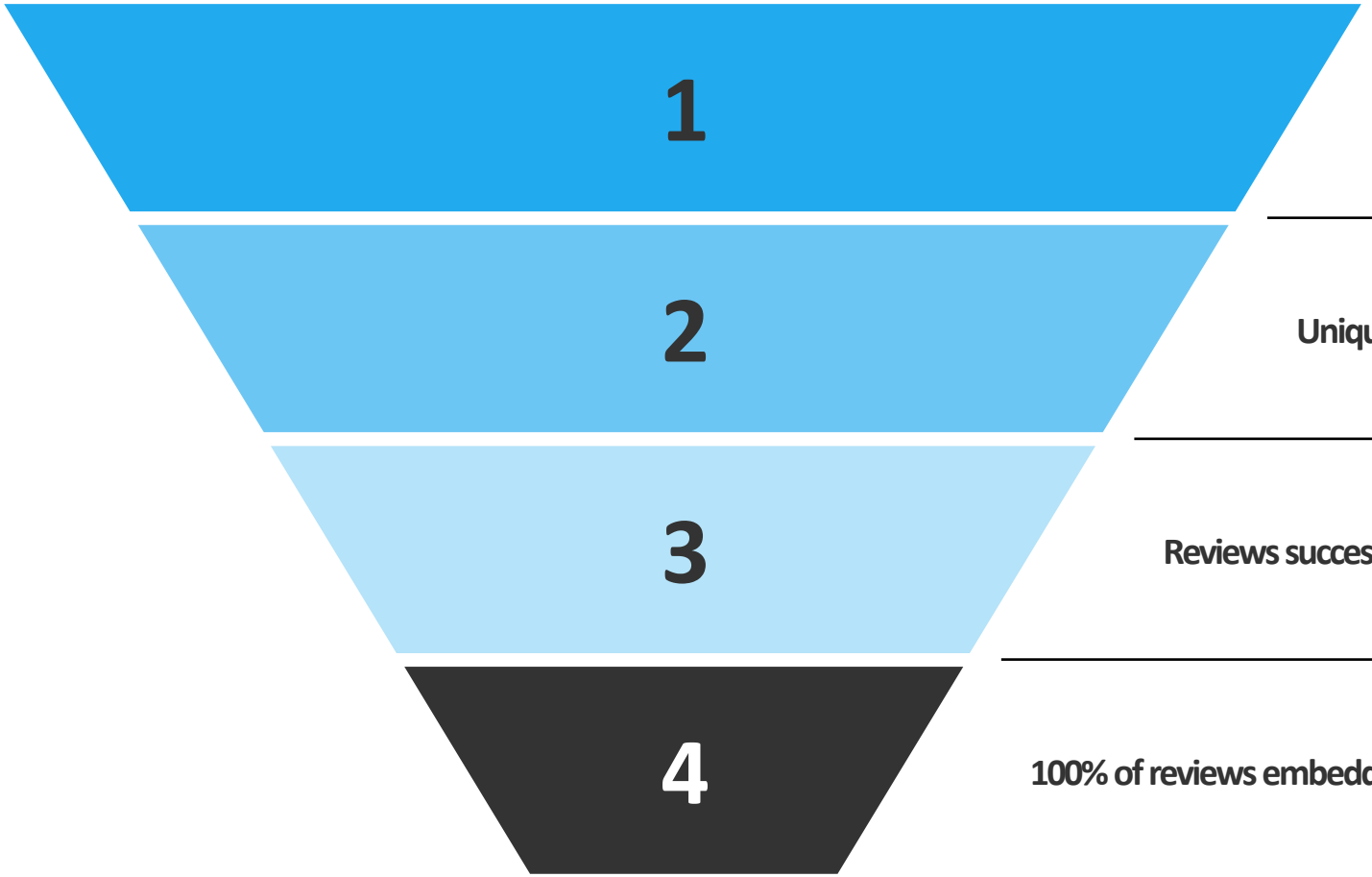
Ingest unstructured restaurant review data from various sources

Extract, transform, and load the raw data to prepare it for analysis. This includes deduplication, data cleaning, and formatting.

Use natural language processing and machine learning to convert the textual review data into numerical embeddings, enabling semantic search and analysis.

Allow users to query the processed data and receive insights generated automatically using the Bedrock large language model.

ETL Results & Data Quality

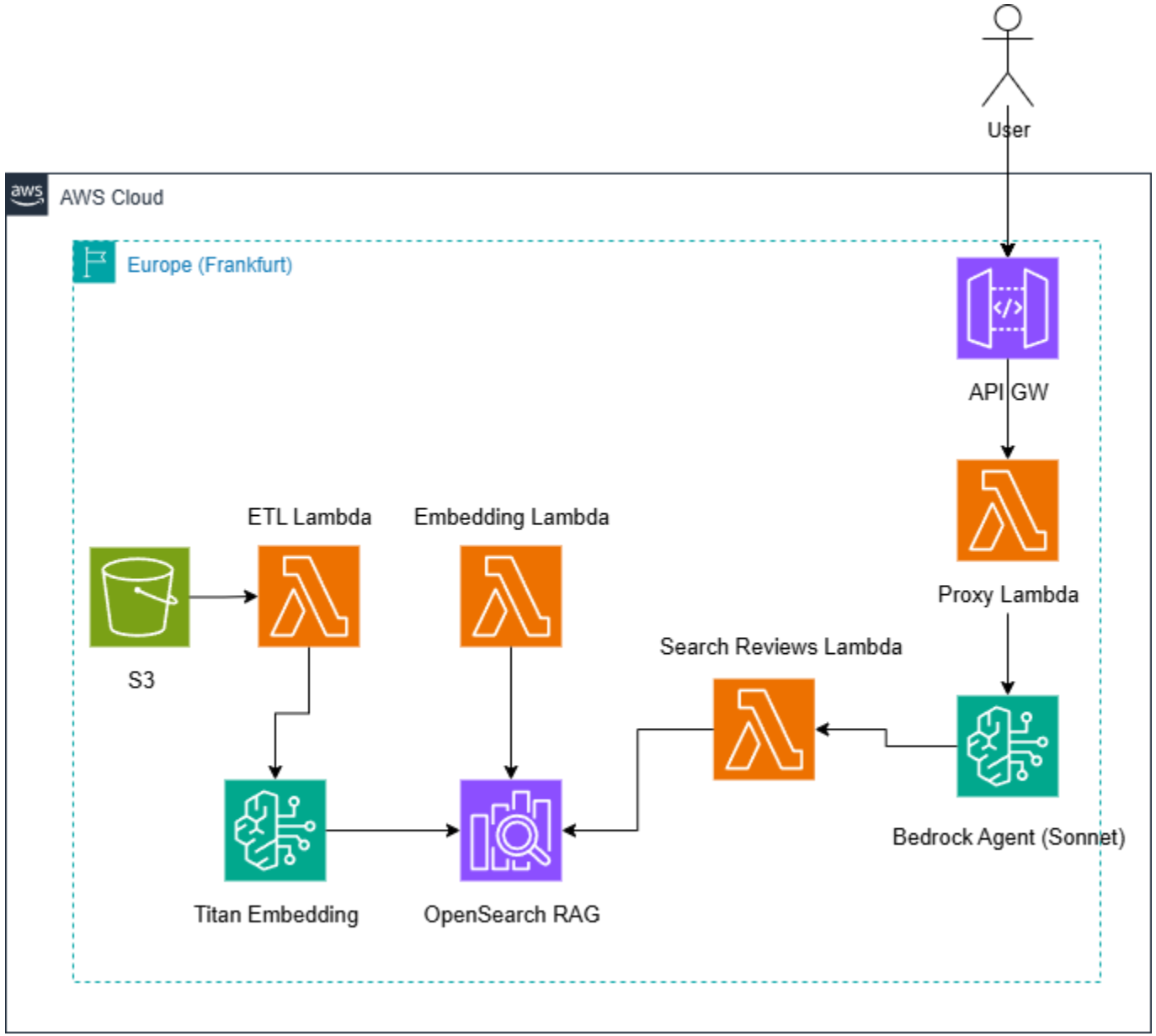


Raw restaurant review data collected

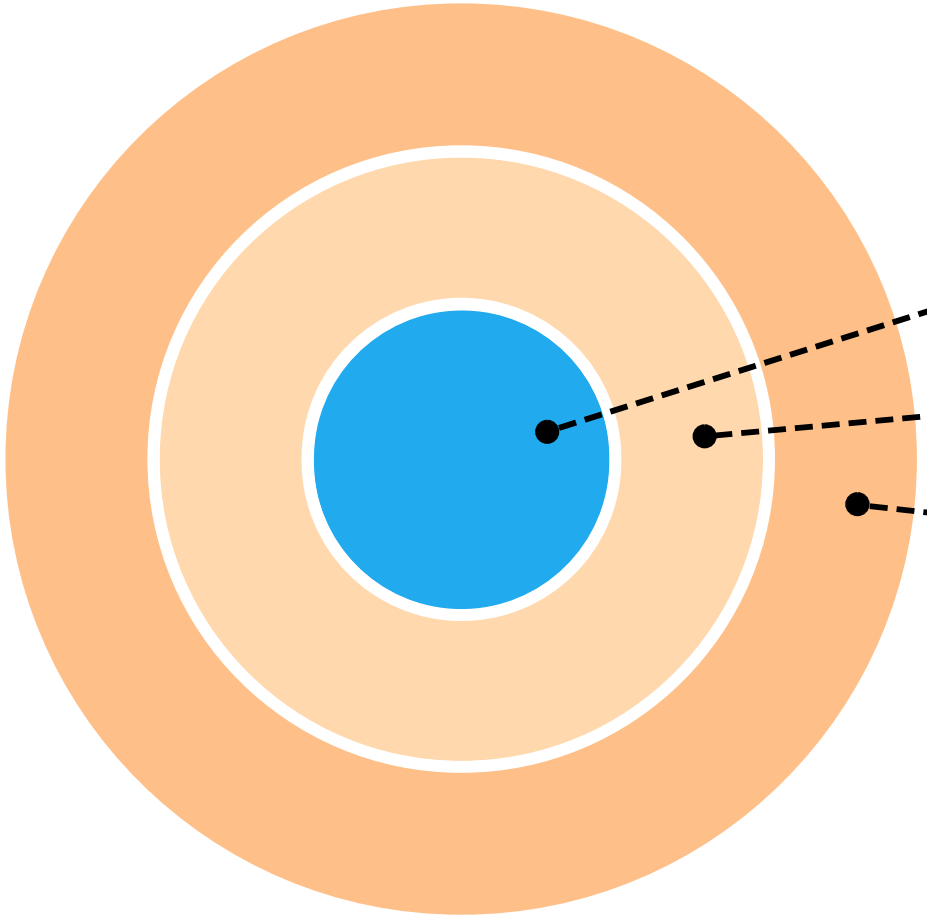
Unique reviews identified and extracted

Reviews successfully processed and embedded

100% of reviews embedded with high quality


User
AWS Cloud
Europe (Frankfurt)
API GW
Proxy Lambda
ETL Lambda
Embedding Lambda
S3
Search Reviews Lambda
Bedrock Agent (Sonnet)
Titan Embedding
OpenSearch RAG

Success Criteria



Accuracy

High precision in query results

Latency

Less than 1 second per query

Cost Efficiency

Approximately $30-45 per month

MVP Plan & Cost

Service	Monthly Cost
Amazon S3	$5-$10
AWS Lambda	$10-$20
Amazon OpenSearch	$8-$15
AWS Bedrock	$5-$10
Amazon API Gateway	$2-$5

*Estimated costs based on AWS pricing calculator and typical usage for a small-to-medium sized application.