



Web Search and Data Mining

Conversational Task Agent

Grupo 13:
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PROJECT PRESENTATION

Index

HOW DID WE DO IT

```
index_body = {
  "settings": {
    "index": {
      "number_of_replicas": 0,
      "number_of_shards": 4,
      "refresh_interval": "-1",
      "knn": "true"
    }
  },
  "mappings": {
    "dynamic": "strict",
    "properties": {
      "recipe_id": {
        "type": "keyword"
      },
      "title": {
        "type": "text",
        "analyzer": "standard",
        "similarity": "BM25"
      },
      "title_embedding": {
        "type": "knn_vector",
        "dimension": 768,
        "method": {
          "name": "hnsw",
          "space_type": "innerproduct",
          "engine": "faiss",
          "parameters": {
            "ef_construction": 256,
            "m": 48
          }
        }
      }
    }
  },
  "description": {
    "type": "text",
    "analyzer": "standard",
    "similarity": "BM25"
  },
}
```

```
    "description": {
      "type": "text",
      "analyzer": "standard",
      "similarity": "BM25"
    },
    "description_embedding": {
      "type": "knn_vector",
      "dimension": 768,
      "method": {
        "name": "hnsw",
        "space_type": "innerproduct",
        "engine": "faiss",
        "parameters": {
          "ef_construction": 256,
          "m": 48
        }
      }
    },
    "ingredients": {
      "type": "keyword"
    },
    "servings": {
      "type": "integer"
    }
  }
}
```

Supported Queries

HOW DID WE DO IT

Text-Based Search

Boolean-Text Search

Filter Boolean Search

Embedding-Based Search

Images

HOW DID WE DO IT

Recipe image



Opened
Images

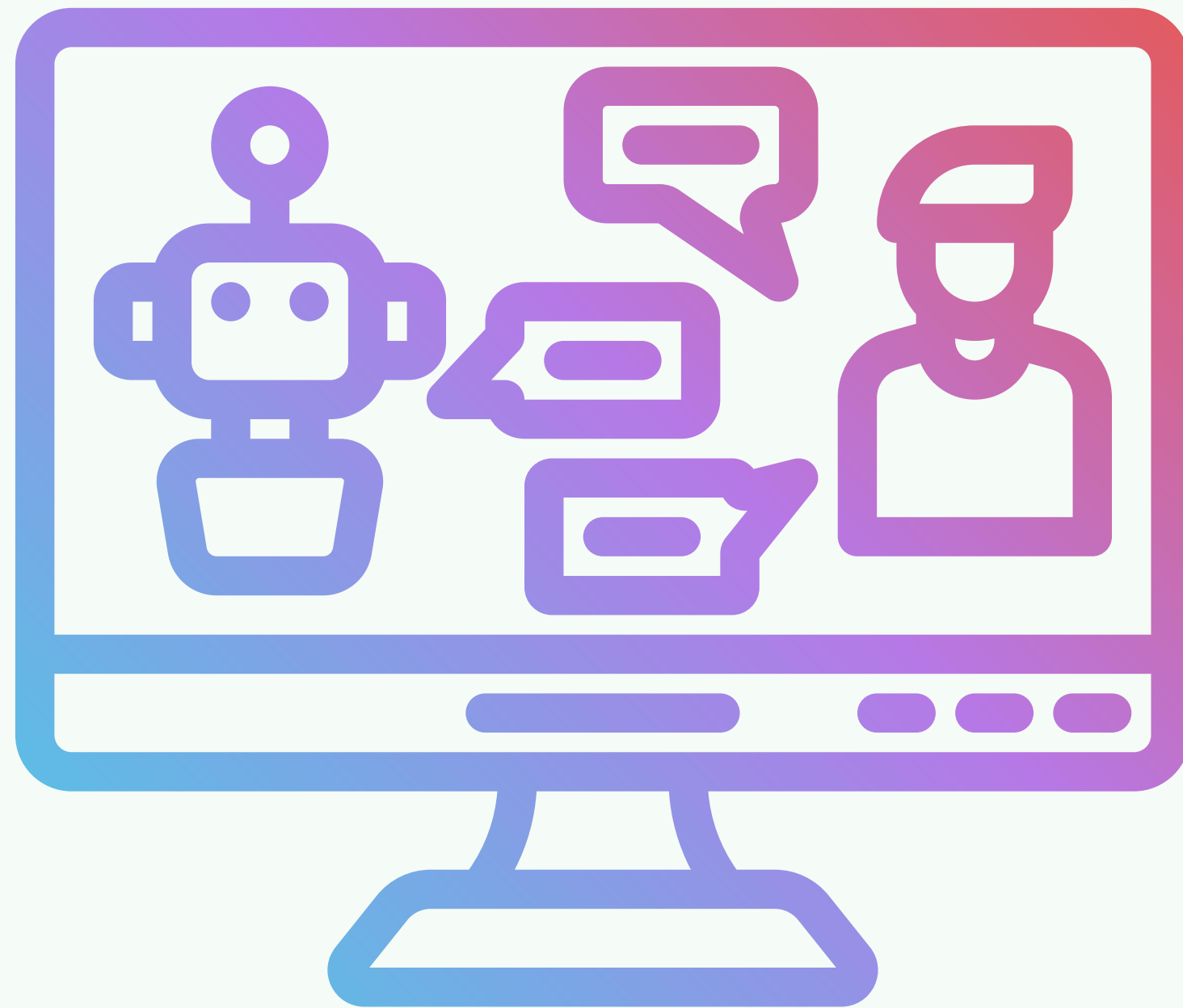
Open images

Calculate Image_features

Images ready to be used

Taskbot

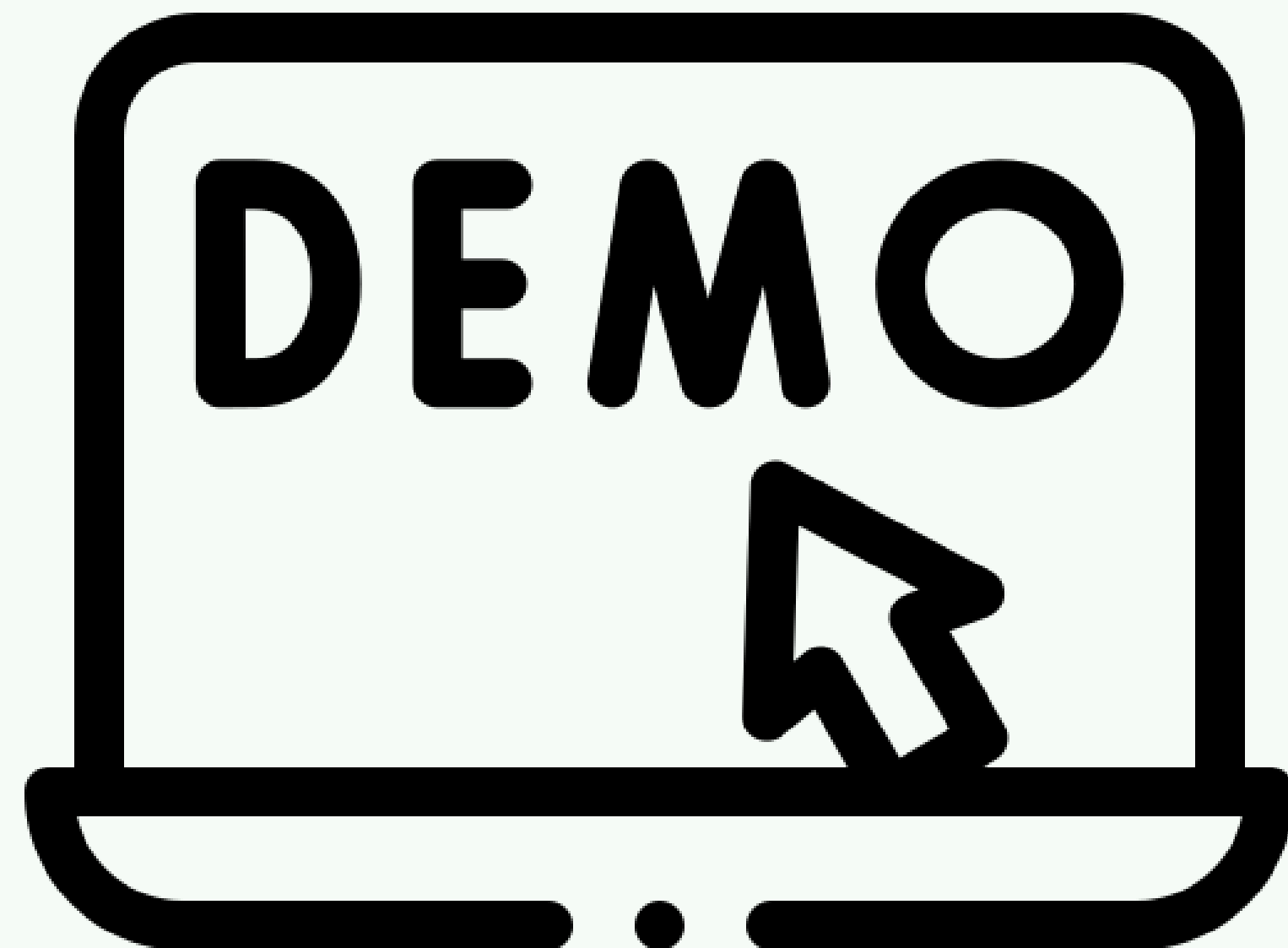
HOW DID WE DO IT



Recipe Game

HOW DID WE DO IT





Obrigado pela atenção

