

Team-14

Gourmet Recipe Recommendation Engine

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Problem Statement

- People don't know the recipe of a dish, even if they have the required ingredients available
- Very less people have time to think and confidence to cook
- Monotony of cooking the same dish, with a set of ingredients

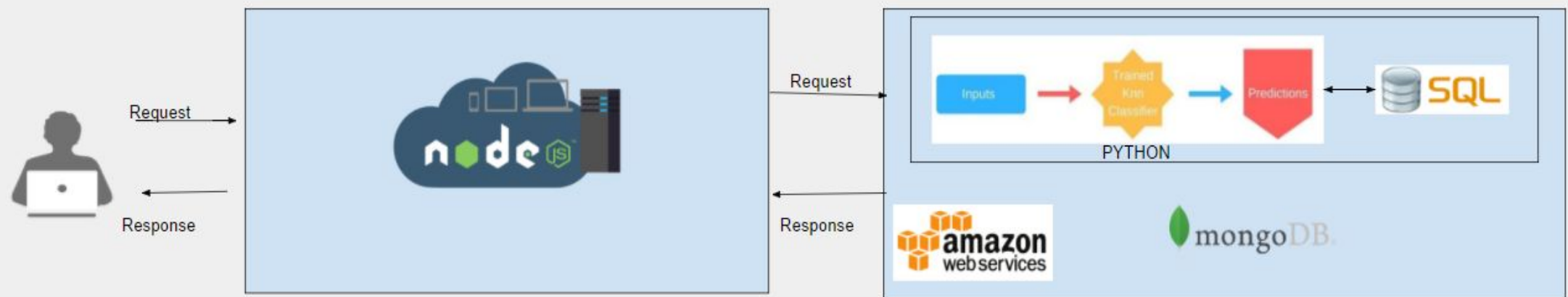


Solution

- Built recipe recommendation using Ingredients Network
- Reading huge data set of 70,000 recipes from various files and using the 80-20 rule its trains itself with the 80% of the data set (Training Set) and builds a multidimensional mathematical clustering model of the data set using python libraries
- Explore multi- recipe menu with same set of ingredients



Design



Implementation

- Deployed and running on AWS instance for 24x7 availability
- Frontend is Built using nodejs and Javascript
- Backend is built using python which is using KNN(K-Nearest neighbour) Ball tree algorithm to pick nearest recipe from data points from nested set of hyperspheres

Future scope

- Add nutrient contents and calorie intake of each recipe
- Sequence of recipes recommended based on users' rating
- Categorize recipes as easy, moderate and difficult

Thank You!