Deploying ML models in Cloud

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Overview

Our goal was to learn more about deploying machine learning models from development to production environments.

We worked to deploy 3 models:

Student exam performance indicator.

This ml model calculates a students expected exam grade using a variety of demographic inputs.

DL model will be NBAi-

A deep learning model designed to bring AI-backed insights into the outcomes of NBA sporting events.

ML model will be NutriScanAI-

an AI-Powered Calorie Tracking application and Virtual Dietary Assistant.

Implementation details

AWS Services Utilized:

AWS IAM to implement identity and access controls

AWS Elastic Beanstalk to deploy and scale the Application.

AWS Cloudwatch to monitor the health of resources

AWS S3 to host resources for the deep learning model

AWS Elastic Container Registry to host the Deep learning Model Environment

AWS Lambda and API Gateway to provision the model and limit uptime

ML Model Student Exam Performance Indicator



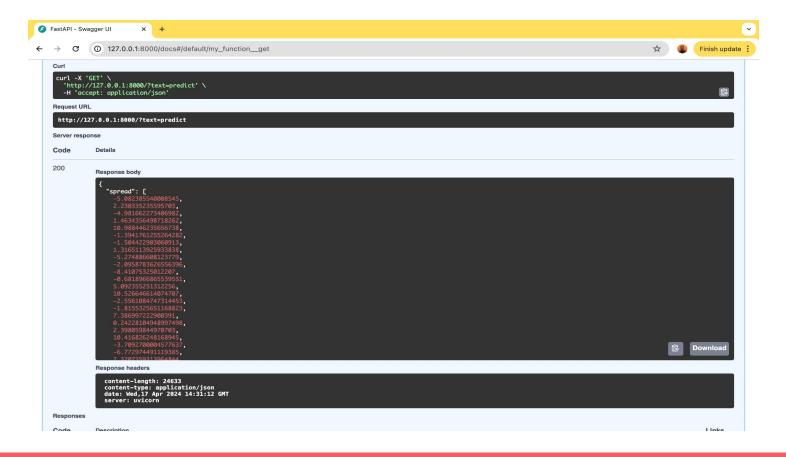
Student Exam Performance Indicator

Student Exam Performance Prediction



THE prediction is 94.5

DL Model NBA-I



Nutriscan AI

NutriScan Al

Input Prompt:

Also tell me with what type of combinations this food taste better and also have high in protein

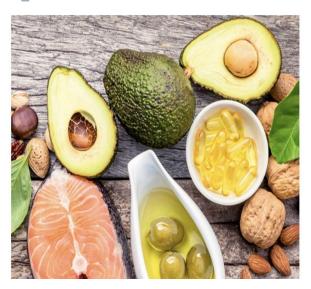
Choose an image...



Browse files

High-Calorie-Foods-For-Weight-Gain.jpg 461.3KB

X





Uploaded Image.

Tell me the total calories

The Response is

- 1. Salmon (100g) 208 calories
- 2. Avocado (100g) 160 calories
- 3. Olive oil (1 tbsp) 119 calories
- 4. Almonds (28g) 164 calories
- 5. Walnuts (28g) 185 calories
- 6. Fish oil (1 capsule) 10 calories

Total calories: 846 calories

Salmon and avocado are a great source of protein and healthy fats. They can be combined with olive oil, almonds, and walnuts to create a delicious and nutritious meal.

