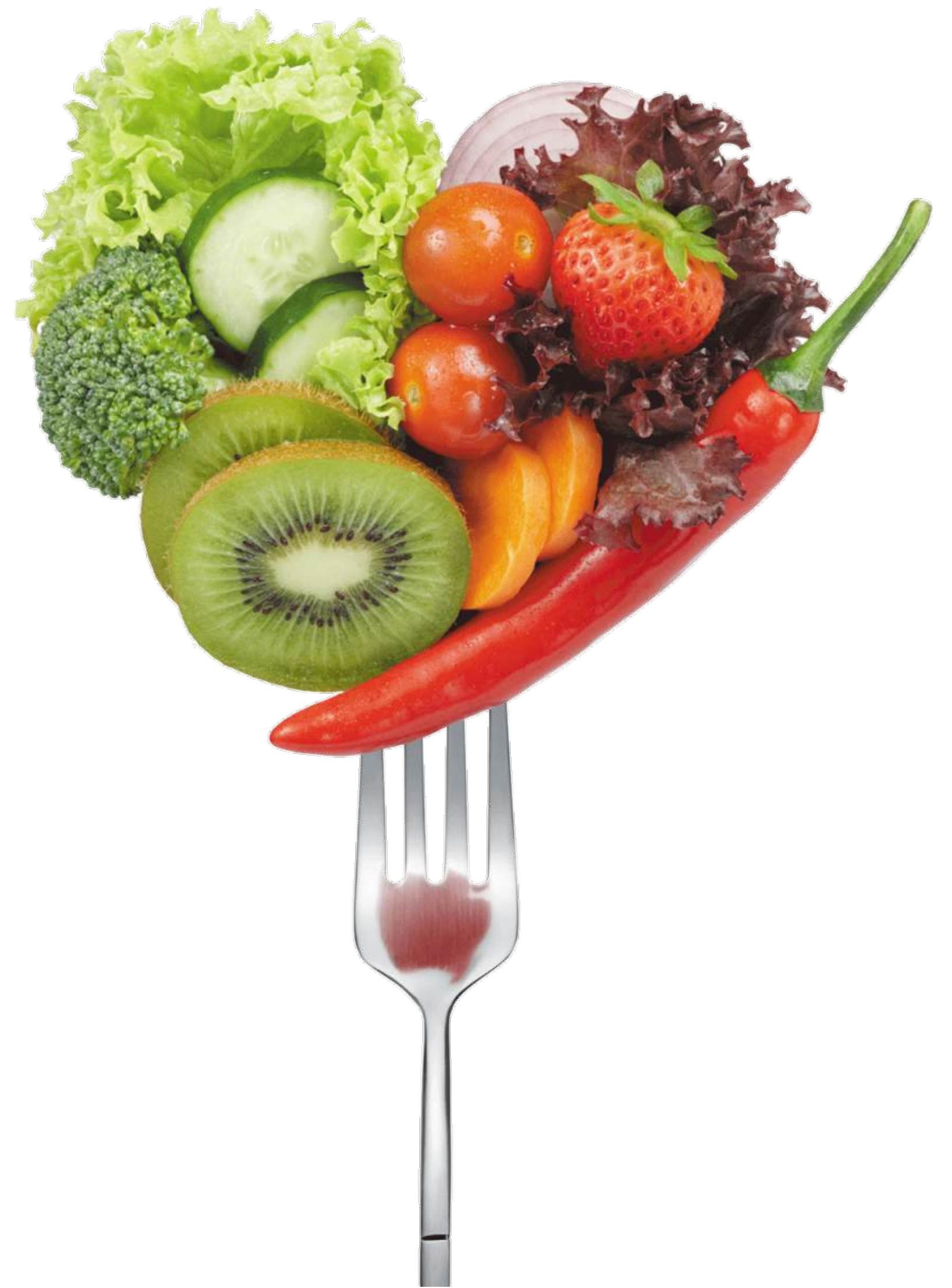


LLM Project Presentation:

MakeEat

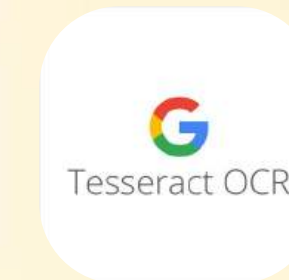
Truly Match, Every Time



What's MakeEat?



MakeEat is a smart recipe generation system that creates **personalized recipes** based on the **user's preferences** and the ingredients purchased, identified through **receipt image analysis** using AI and ML technologies.



Dev Direction - Enhance Accuracy Through Prompting



Shrimp Pasta
~800 kcal

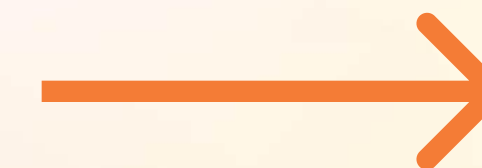
Src: Nutritionix



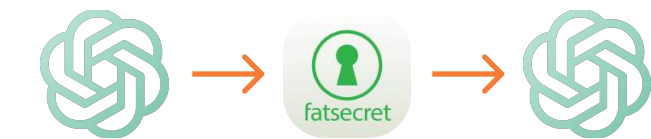
some app

350 kcal
(ACC: 43.75%)

ACC: +55.125%



MakeEat



809.3 kcal
(ACC: 98.88%)

3-Stage Prompt for Accurate Nutrition Calculation

1. Generate general information about the recipe, **excluding nutritional details**.
2. Send ingredient-related information to **FatSecret's API** to receive nutritional data for each ingredient.
3. Send the retrieved nutritional data along with the required quantities of each ingredient to GPT, allowing it **to estimate accurate nutritional values**.

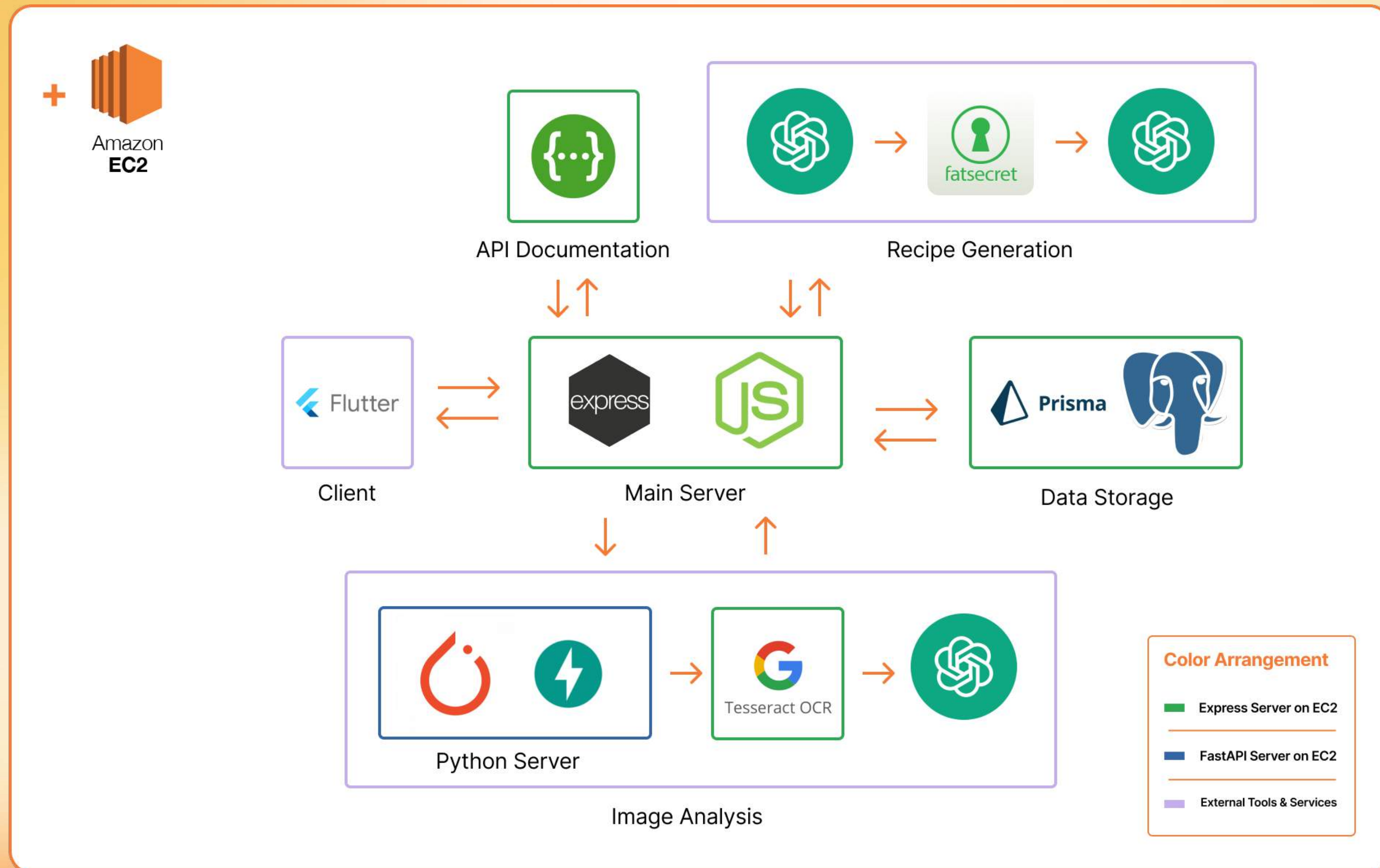
Dev Direction - Efficient Image Preprocessing



3-Stage Hybrid Approach for Receipt Image OCR

1. Precise **text area detection** using **PyTorch-based EasyOCR** on FastAPI server.
2. **Text analysis** of detected areas using **Tesseract**
3. Ingredient **information extraction** using **GPT-4**

System Architecture Diagram



DEMO

Cook with MakeEat!

9:26

100

DEBUG


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Italian Shrimp Pasta



A delightful Italian lunch dish that combines succulent shrimp with flavorful pasta. Simple, yet satisfying and completely peanut-free.

🕒 30 minutes

👤 2 servings

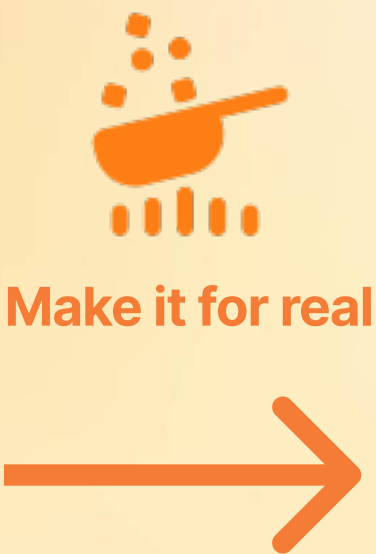
Ingredients

● shrimp: 200 grams

● pasta: 200 grams

● olive oil: 2 tablespoons

Recipe by MakeEat



MakeEat makes recipes you'll love to cook and eat!