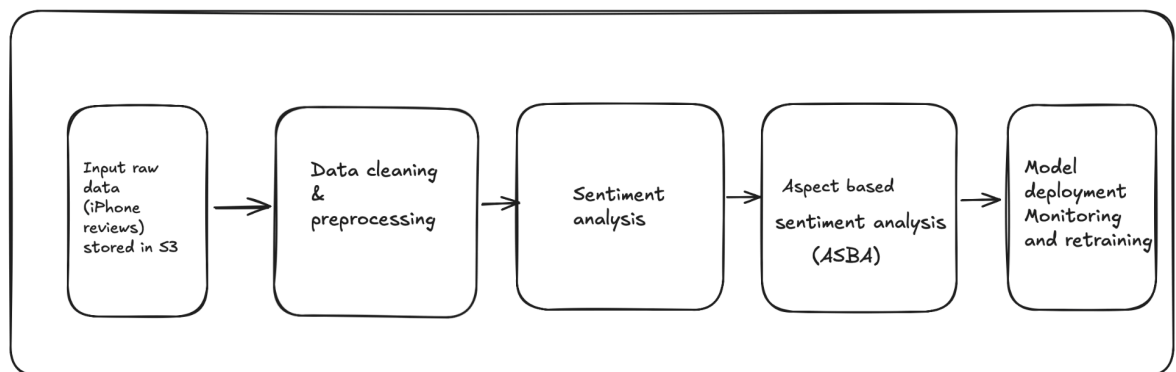# iPhone reviews analysis system HLD and Deployment Architecture using AWS SageMaker

1. High level diagram for iPhone reviews analysis system

Diagram illustrating the data and model flow

a. Key notes:
   i. Input data : iPhone reviews downloaded from Kaggle.
   ii. Data cleaning and preprocessing to make better predictions.
   iii. Sentiment analysis: Deep dive major issues reported from reviews.
   iv. ASBA: Explore the possibility of replacing expensive and slow LLMs with smaller, custom models. These models should be simple and scalable, while still maintaining acceptable quality.
   v. Model deployment using AWS SageMaker and monitoring and retraining every 6 months once we have enough new reviews and share the deep insights with business

development teams to take necessary actions to improve customer satisfaction.

2. Deployment Architecture

Deployment architecture