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Exam Professional Machine Learning Engineer All Questions

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📄 **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 200 DISCUSSI...**

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 200

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You work for a hotel and have a dataset that contains customers' written comments scanned from paper-based customer feedback forms, which are stored as PDF files. Every form has the same layout. You need to quickly predict an overall satisfaction score from the customer comments on each form. How should you accomplish this task?

A. Use the Vision API to parse the text from each PDF file. Use the Natural Language API analyzeSentiment feature to infer overall satisfaction scores.

B. Use the Vision API to parse the text from each PDF file. Use the Natural Language API analyzeEntitySentiment feature to infer overall satisfaction scores.

C. Uptrain a Document AI custom extractor to parse the text in the comments section of each PDF file. Use the Natural Language API analyzeSentiment feature to infer overall satisfaction scores.

D. Uptrain a Document AI custom extractor to parse the text in the comments section of each PDF file. Use the Natural Language API analyzeEntitySentiment feature to infer overall satisfaction scores.

Show Suggested Answer

by 👤 **pikachu007** at *Jan. 13, 2024, 4:18 a.m.*

Comments

Type your comment...

Foxy2021 1 week, 3 days ago

My vote is a. It is simple and do the job.

👍 ↩ 🚩 upvoted 1 times

AzureDP900 4 months ago

C is right

Document AI custom extractor: Allows you to train a custom model to extract relevant information (in this case, customer comments) from the PDF files.

Natural Language API analyzeSentiment feature: Analyzes the sentiment of the extracted text to predict an overall satisfaction score.

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bobjr 4 months, 2 weeks ago

Selected Answer: A

C & D are overkill

We don't care about entities sentiment -> B is out

Left with A and https://cloud.google.com/natural-language/docs/reference/rest/v1/documents/analyzeSentiment

👍 ↩ 🚩 upvoted 1 times

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fitri001 6 months, 1 week ago

Selected Answer: C

Document AI custom extractor: Since the layout of the feedback forms is consistent, training a custom extractor in Document AI allows for efficient and accurate extraction of the specific comments section. This ensures the Natural Language API receives the relevant text for sentiment analysis.

Natural Language API - analyzeSentiment: This functionality within the Natural Language API is specifically designed to analyze sentiment in a piece of text. It provides an overall sentiment score that can be mapped to a satisfaction score (e.g., high positive sentiment translates to high satisfaction).

👍 ↩ 🚩 upvoted 4 times

fitri001 6 months, 1 week ago

A. Vision API - parseText: While the Vision API can extract text from PDFs, it wouldn't necessarily target the specific comments section without a custom parser.

B. Natural Language API - analyzeEntitySentiment: This feature focuses on sentiment analysis for named entities within the text. It might not be ideal for overall satisfaction extraction from general customer comments.

👍 ↩ 🚩 upvoted 1 times

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pinimichele01 6 months, 1 week ago

Selected Answer: A

quickly predict an overall satisfaction -> a

👍 ↩ 🚩 upvoted 1 times

pinimichele01 5 months, 4 weeks ago

no sorrt, it's C, you need doc AI

👍 ↩ 🚩 upvoted 1 times

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edoo 7 months, 2 weeks ago

Selected Answer: A

I go with A, because "you need quickly predict", no time for fine-tunning.

👍 ↩ 🚩 upvoted 2 times

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guilhermebutzke 8 months, 1 week ago

Selected Answer: C

My answer: Letter C

Document AI is a suitable tool for cases where there are patterns of forms or documentation. Additionally, it is possible to directly read PDF files. In the Natural Language API, the analyzeSentiment function can determine the overall sentiment, as the text asks, "You need to quickly predict an overall satisfaction." The analyzeEntitySentiment function provides a score for each entity or word found.

https://cloud.google.com/natural-language/docs/basics

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ddogg 8 months, 3 weeks ago

Selected Answer: C

Document AI custom extractor: This allows you to tailor the text extraction specifically to the layout and format of your customer feedback forms, ensuring accurate capture of the comments section.

Natural Language API analyzeSentiment: This feature analyzes the extracted text and provides an overall sentiment score, which can be used to gauge customer satisfaction.

👍 ↩ 🚩 upvoted 1 times

⊟ 👤 **pikachu007** 9 months, 1 week ago

Selected Answer: C

Precision in text extraction: Document AI is specifically designed for extracting text from structured documents like forms, ensuring accurate extraction of comments, even with varying handwriting styles.
Custom model for form layout: Training a custom extractor tailored to the hotel's feedback form layout further enhances accuracy and targets the relevant comments section effectively.
Sentiment analysis: Natural Language API's analyzeSentiment feature analyzes overall sentiment in a text block, aligning with the goal of deriving overall satisfaction scores.
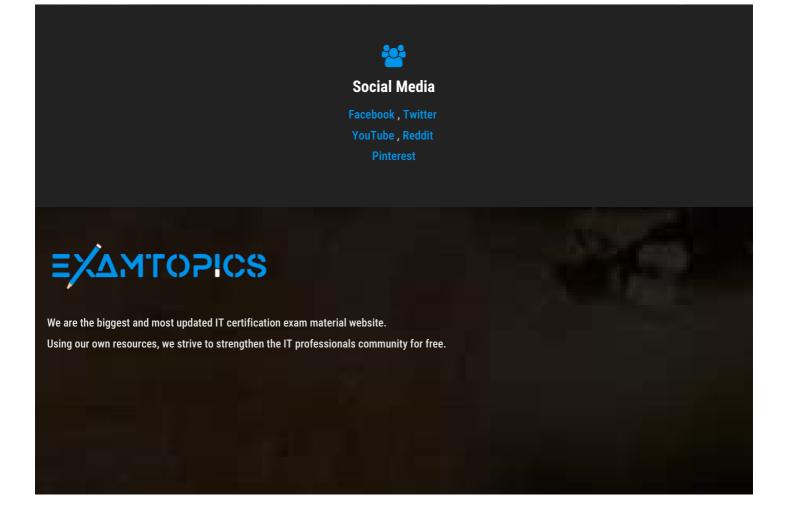
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