

## DIGITAL BUSINESS ANALYST TEAM CANDIDATES

"We have come up with a range of options for a small exercise to complete. Pick any one option and send us your responses in a pre-recorded video. Are you keen to get started?"

### Select 1 of the 4 options for Case Interview

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#### OPTION 1: CHATBOT

Build an interactive bot using Microsoft Bot Framework for any one of the business problems:

- a. Chatbot to find a suitable job opening at AI Australia. You can source list of roles from <https://aiaustralia.zohorecruit.com/careers> (<https://aiaustralia.zohorecruit.com/careers>)
- b. A companion chatbot that helps cope with working from home. This bot would be checking up on you occasionally and keep you company.
- c. A chatbot that helps user to find the cheapest E10 Fuel near your area, but also advice you when are good days to fuel-up, and places to fuel-up to save money

You can use data from [data.nsw.gov.au](https://data.nsw.gov.au) (<https://data.nsw.gov.au/>) or <https://data.nsw.gov.au/data/dataset?q=Fuelcheck%20> (<https://data.nsw.gov.au/data/dataset?q=Fuelcheck%20>)

Once you have completed this, create a video with a demonstration of the working chatbot.

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#### OPTION 2: IMAGE ANALYTICS

Write a simple app/script that will take a LinkedIn profile URL as an input, and, perform the following changes and analysis on the LinkedIn profile photo, such as :

Blur the background from the face



Identify profiles where the face is at least 50-60% of the overall photo. If it's less than 50%, then score of face quality being too small

Identify if teeth are visible. If so, mention teeth is shown

Identify sentiment on face. E.g. smiling / happy, or neutral, sad.

Other considerations:

Use native SDK or Rest calls (Microsoft Computer Vision API),

Perform visual features recognition.

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## OPTION 3: VIDEO ANALYTICS

Record a small video-based answer for an interview question. E.g. Tell us more about yourself?

Write a program that will provide the following analysis on the video:

Perform Sentimental analysis of the candidate

Convert voice part of the answer and convert to text

Identify most prominent sentiments based on the candidate's face, e.g. happy, stressed, sad, etc.

Identify various nonverbal attributes.

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## OPTION 4: FORECASTING

Provide a video-based presentation, providing a detailed analysis on any one of the following areas:

Forecast house price or rental prices in your suburb for next 3 years.

Forecast Incoming International Students to study in Australia.

Forecast the effect of any of the parameters such as unemployment levels or job losses, or economy, as a result of lockdowns

There are two parts to this. The first part of the analysis, you need to ensure you explain the business context to the situation, and provide insights on what are we likely to see, and why. While you may use different methods to forecast, provide an explanation on what are considerations, such as 2nd or 3rd wave of COVID-19, Trade Wars, and so.

For the technical part of your analysis, please attach a readme file which explains every stage of your analysis. Also, explain your steps involved in improving accuracy of the model. In addition, we expect you to use appropriate technologies wherever required.

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Please contact Callum Bir (<https://www.linkedin.com/in/callumbir>) if you have a question about this.

## ABOUT US

We do it all, and we do it without a hitch.

From concept through to production, completion and handover – AI FILMS takes care of every stage and aspect of film and video production for your brand.

If you have something to say, we have the crew near you to capture it on film. No job too small or big, we know what needs to be done and we deliver it seamlessly so that you don't have to source, manage or coordinate a single thing. That's our job!

## OFFICES

AI Health (<https://aihealth.tech/>)

AI Brisbane (<https://aibrisbane.com.au/>)

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AI Hobart (<https://aihobart.com.au/>)

AI Perth (<https://aiperth.com.au/>)

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AI Australia (<https://aiaustralia.org/>)

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## GET IN TOUCH

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Contact Us

Careers (<https://aiaustralia.org/career/>)



Gold Data Analytics  
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Silver Collaboration and Content



