



Week 3 Quiz

TOTAL POINTS 10

1. Because smart speakers can carry out multiple functions (such as tell a joke, play music, etc.) it is an example of Artificial General Intelligence (AGI).

1 point

- ☐ True
☒ False

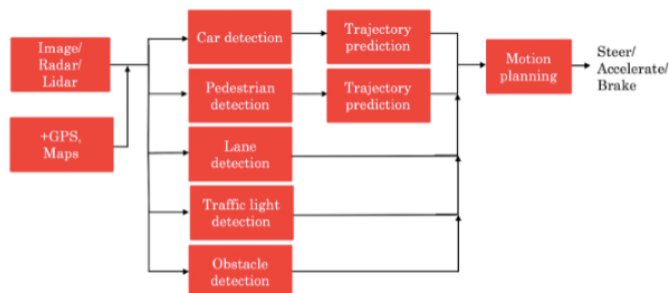
2. What are the key steps to a smart speaker function?

1 point

- ☐ Trigger detection -> Intent recognition -> speech recognition -> command execution.
☐ Speech recognition -> Trigger word detection -> intent recognition -> command execution.
☐ Trigger word detection -> intent recognition -> speech recognition -> command execution.
☒ Trigger word detection -> speech recognition -> intent recognition -> command execution.

3. Consider this system for building a self-driving car:

1 point



The component for pedestrian detection is usually built using:

- ☒ Supervised learning
☐ Reinforcement learning
☐ A motion planning algorithm
☐ GANs

4. Suppose you are building a trigger word detection system, and want to hire someone to build a system to map from Inputs A (audio clip) to Outputs B (whether the trigger word was said), using existing AI technology. Out of the list below, which of the following hires would be most suitable for writing this software?

1 point

- ☐ AI Product Manager
☐ Data engineer
☐ Machine learning researcher
☒ Machine learning engineer

5. What is the first step in the AI Transformation Playbook for helping your company become good at AI?

1 point

- ☒ Execute pilot projects to gain momentum
☐ Provide broad AI training
☐ Develop an AI strategy
☐ Build an in-house AI team

6. Of the following options, which is the most important trait of your first pilot project?

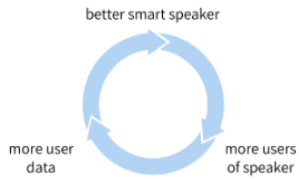
1 point

- ☒ Succeed and show traction within 6-10 months
☐ Drive extremely high value for the business
☐ Be executed by an in-house team
☐ None of the above

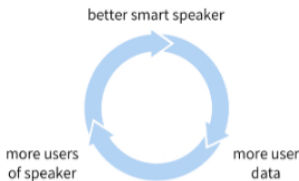
7. Say you are building a smart speaker, and want to accumulate data for your product through having many users. Which of these represents the "Virtuous circle of AI" for this product?

1 point

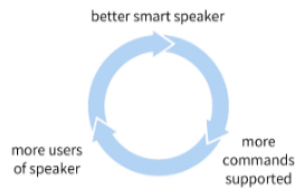
☒ (A)



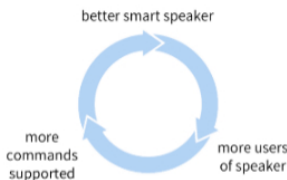
☐ (B)



☐ (C)



☐ (D)



8. Why is developing an AI strategy NOT the first step in the AI Transformation Playbook?

1 point

- ☐ There is no reason. Developing an AI strategy IS the first step in the AI Transformation Playbook.
- ☐ When transforming a company into an AI company, one does not need a strategy, therefore it can't be the first step.
- ☒ Without having some practical AI experience and knowing what it feels like to build an AI project, a company usually does not know enough to formulate a sound strategy.
- ☐ The strategy should be to use the Virtuous Circle of AI, which comes after building a product.

9. According to the AI Transformation Playbook, broad AI training needs to be provided not only to engineers, but also to executives/senior business leaders and to leaders of divisions working on AI projects.

1 point

- ☒ True
- ☐ False

10. Which of the following are AI pitfalls to avoid? (Select all that apply)

1 point

- ☐ Pairing engineering talent with business talent to identify feasible and valuable projects.
- ☒ Expecting AI based projects to work the first time
- ☒ Expecting traditional planning processes to apply without changes
- ☒ Expecting AI to solve everything

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