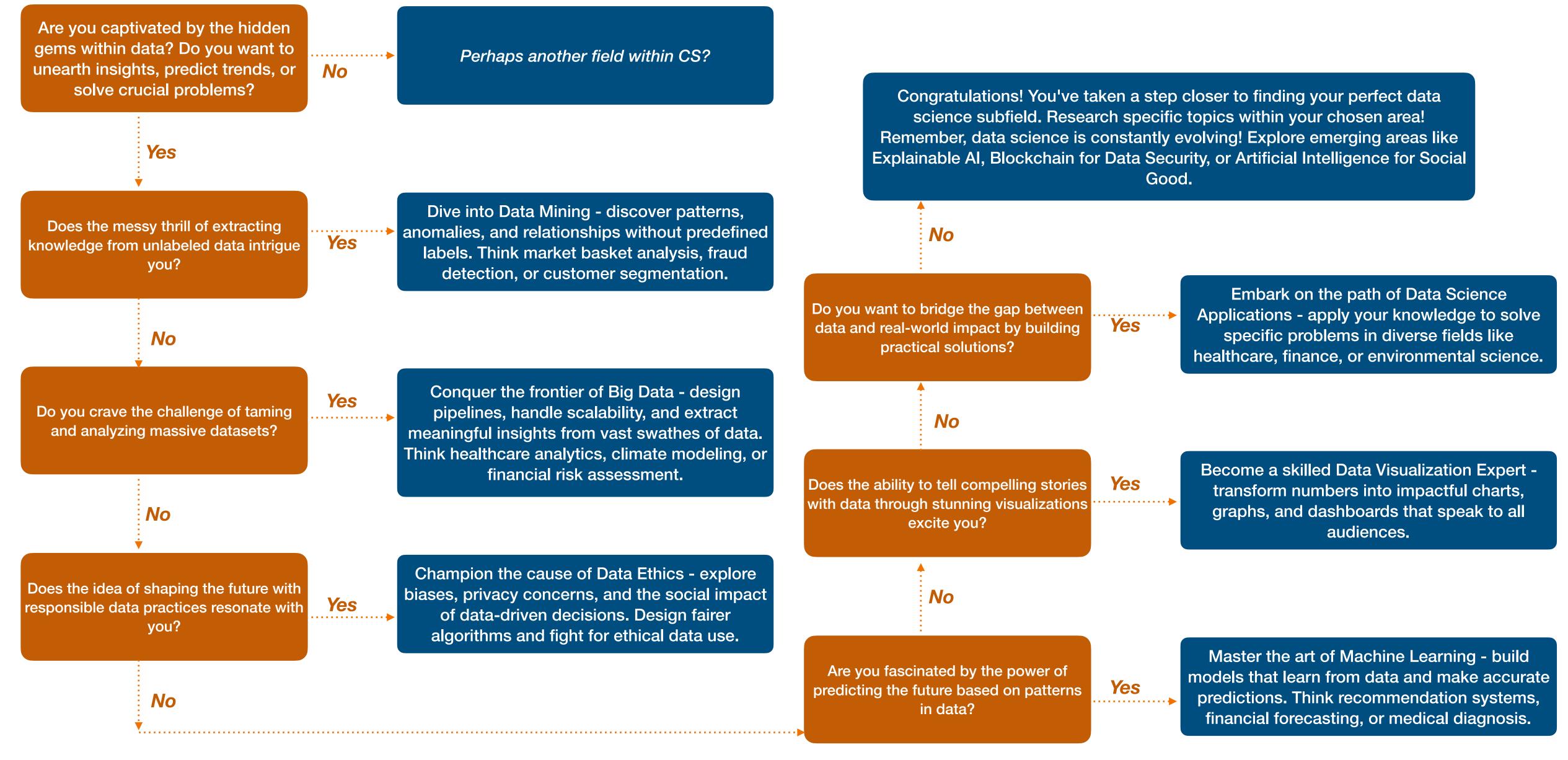
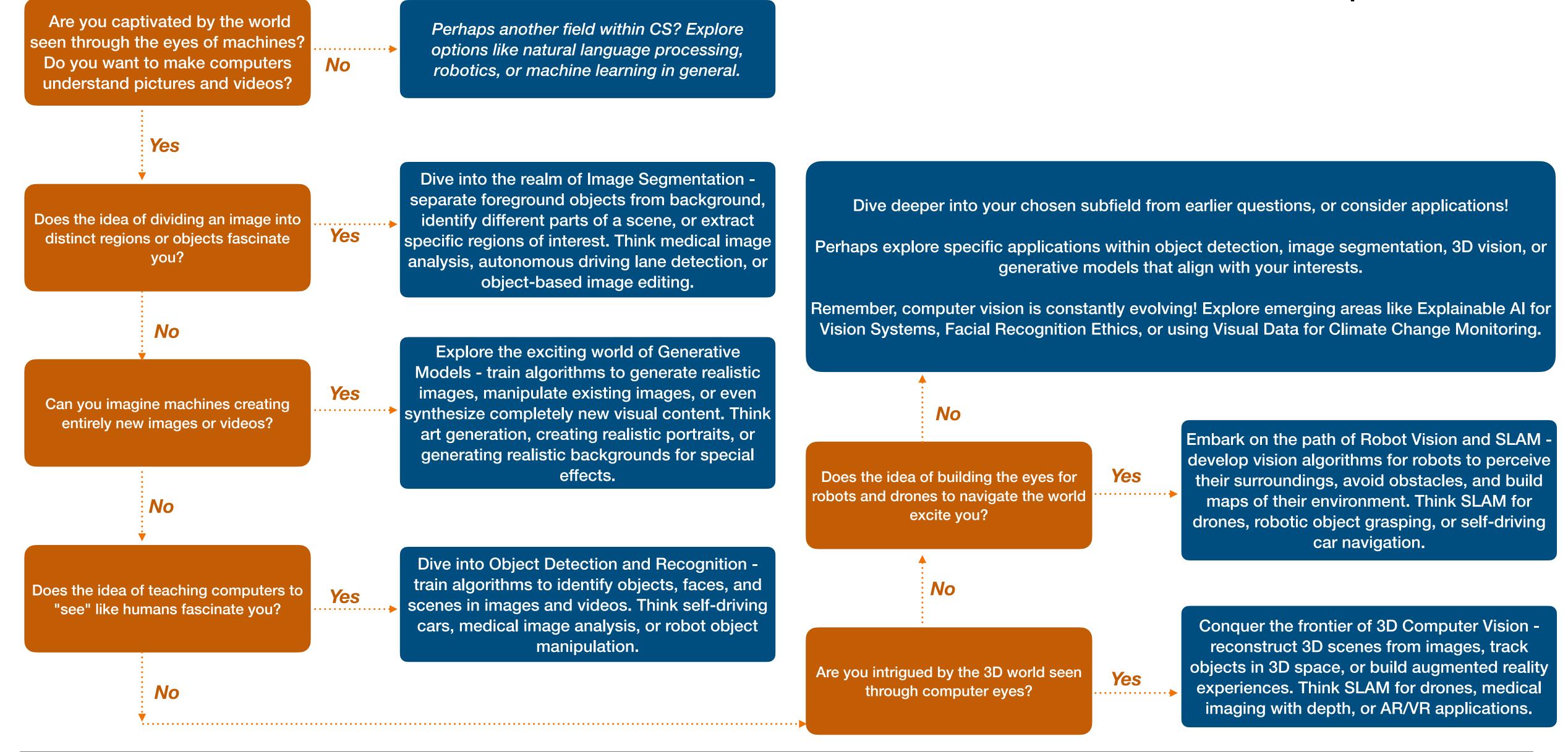
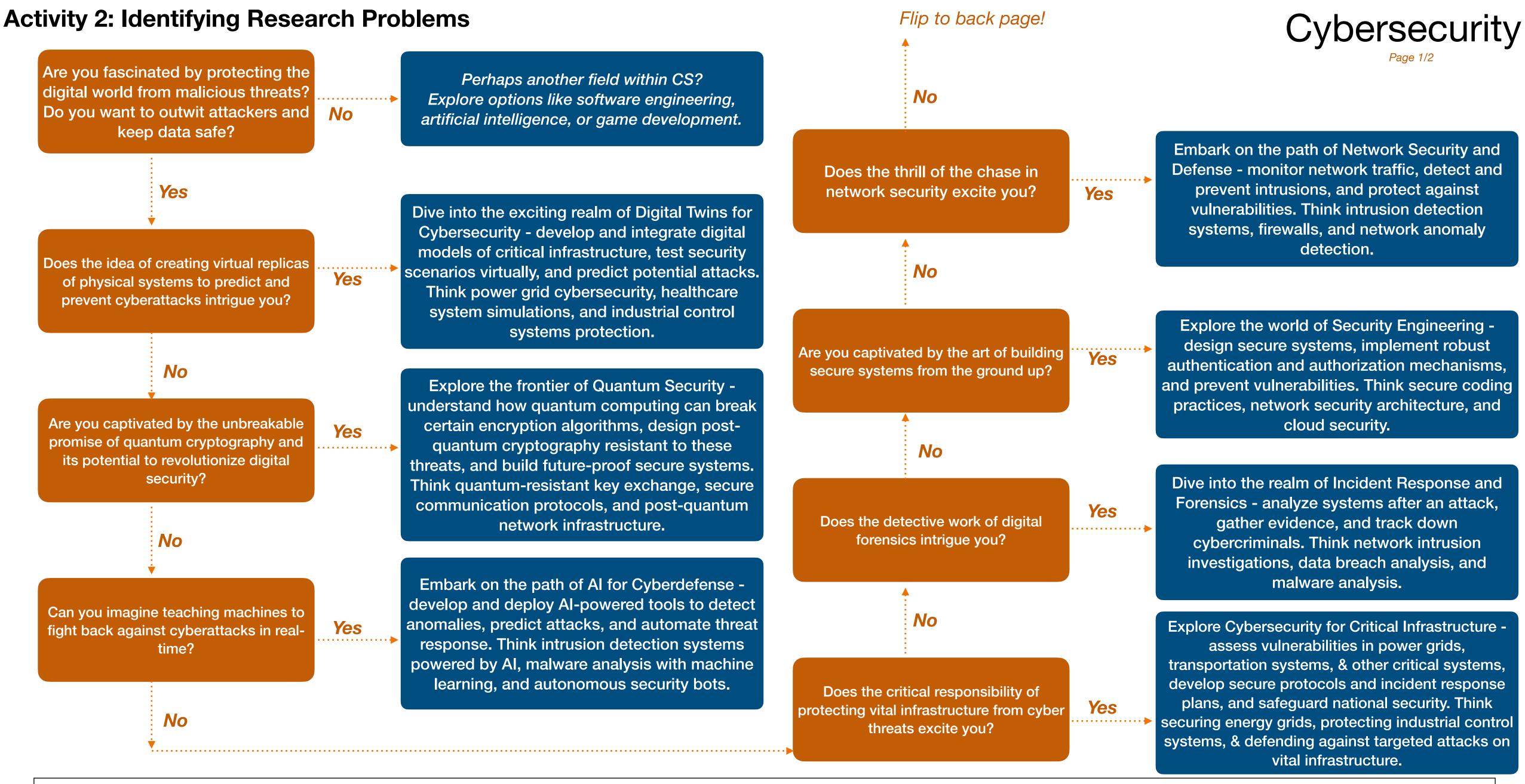
Data Science



Instructions: Beginning at the top, answer the questions (honestly!) to discover which research topics & problems might be of interest within your field. Circle the blue boxes that correspond with a good match to your answers, and cross out any that are not of interest. Leave the rest unmarked.

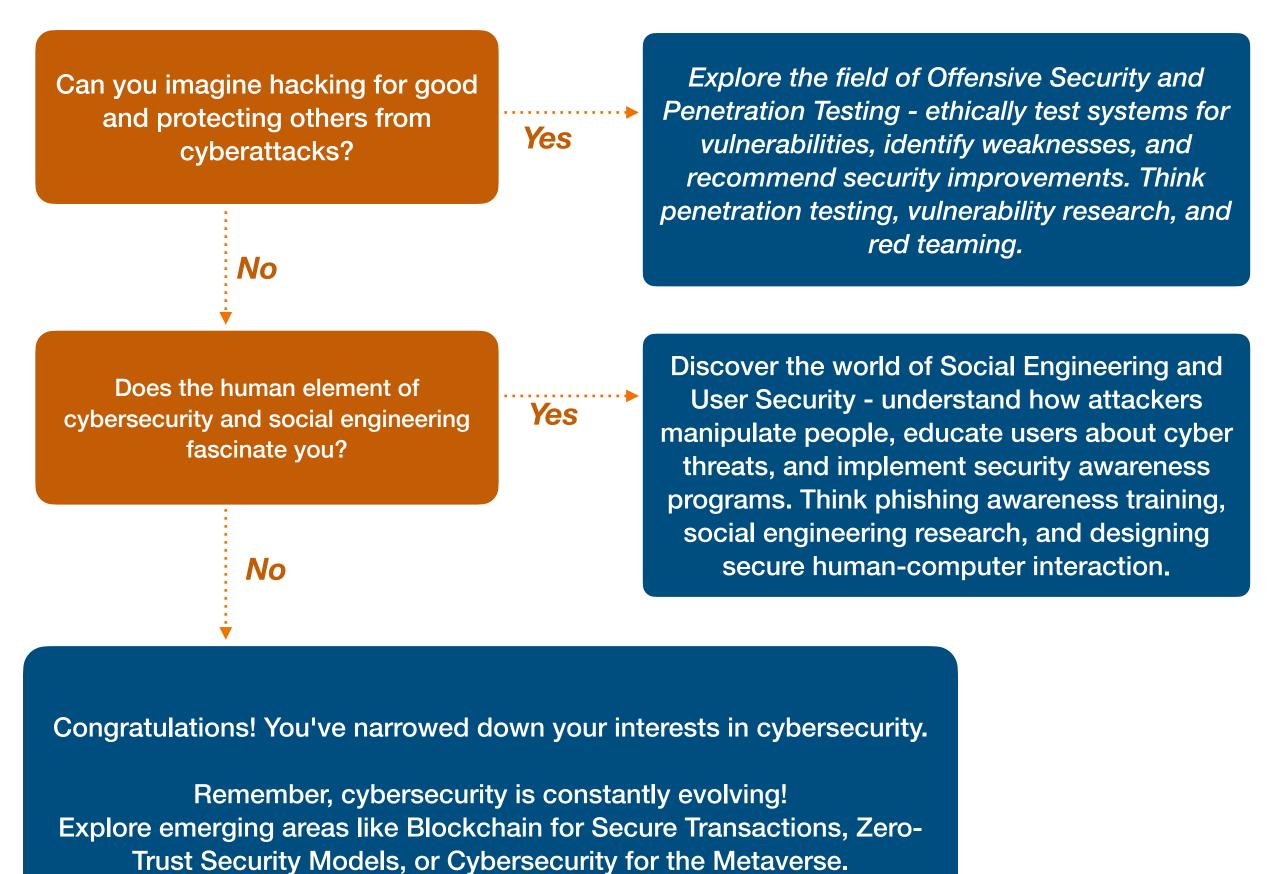
Computer Vision



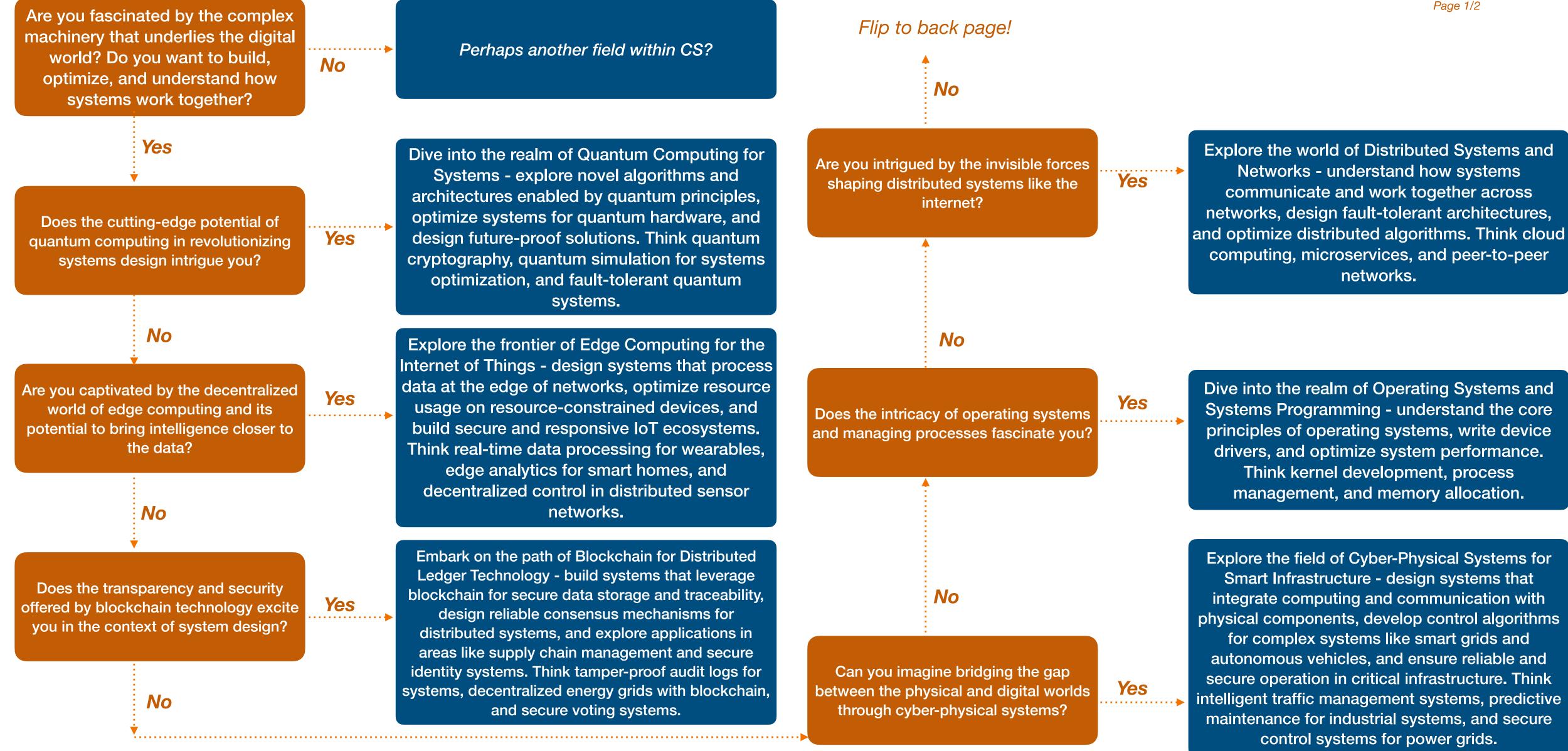


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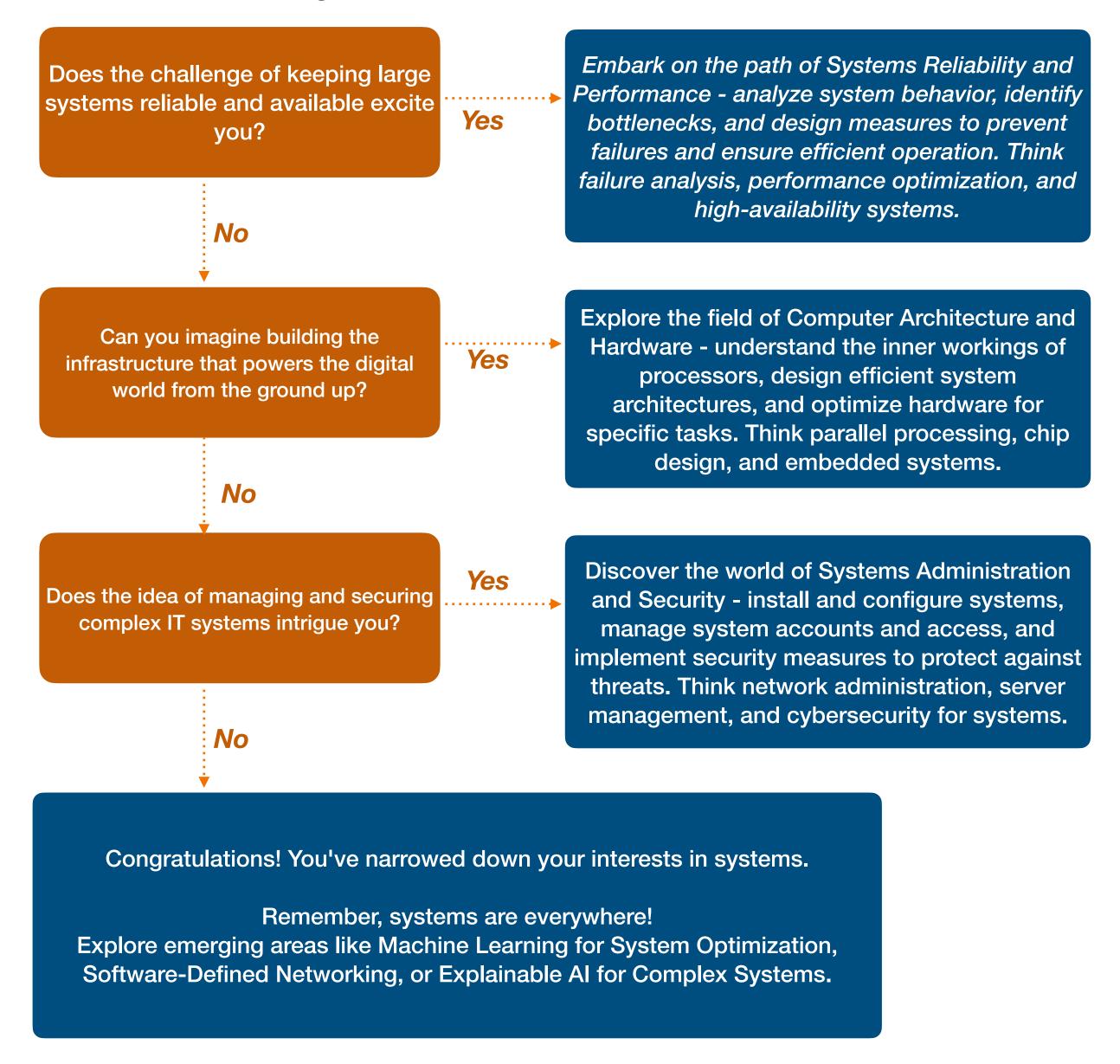
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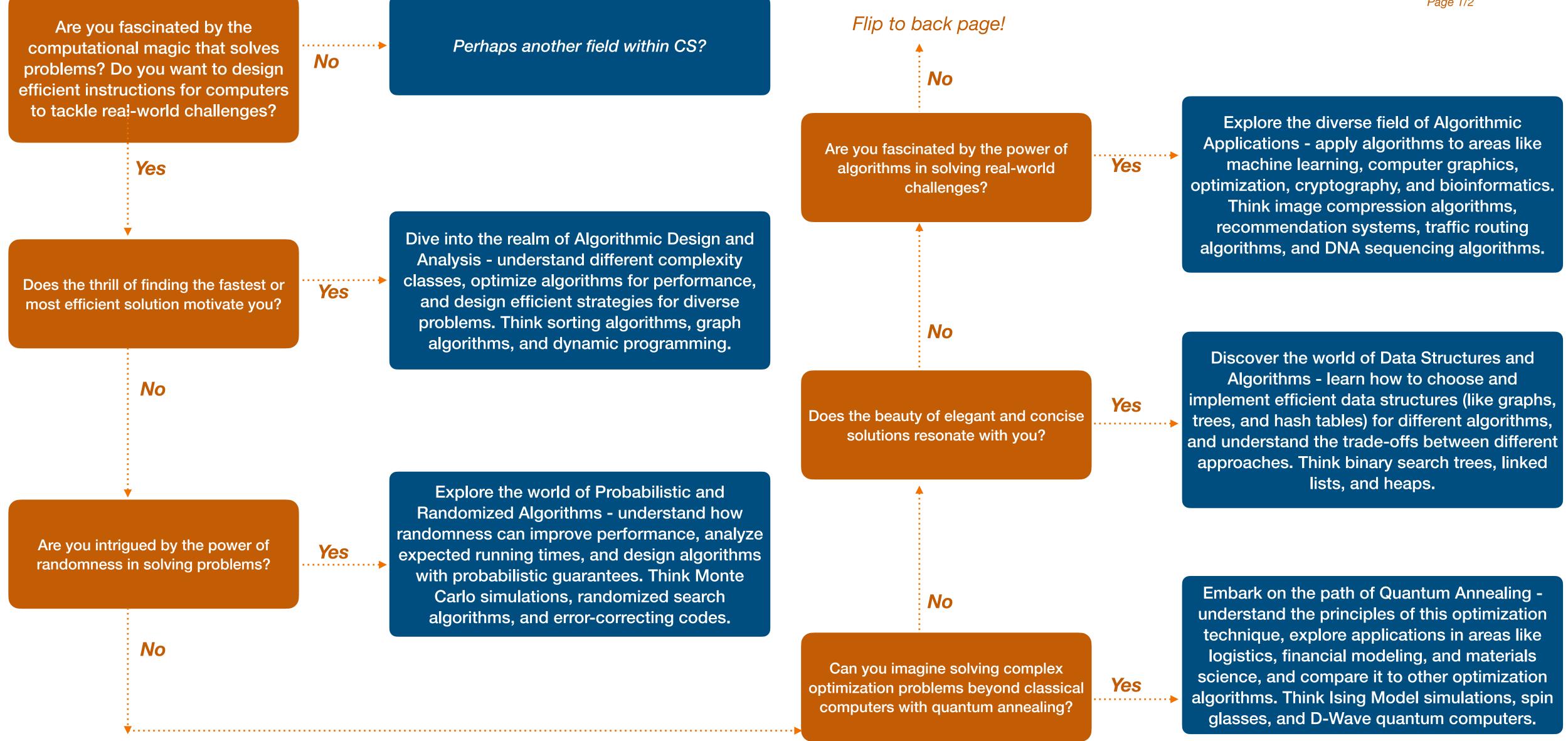






Algorithms/Quantum

Question & response text has been edited by an LLM.



Algorithms/Quantum

Question & response text has been edited by an LLM.

Dive into the realm of Explainable Al for Algorithms intrigue you?

Yes

Dive into the realm of Explainable Al for Algorithm Transparency - understand the inner workings of complex Al models, develop methods to explain their decisions, and advocate for transparency in algorithmic systems. Think interpretable machine learning models, explainable reasoning frameworks, and human-centered explanations.

Explore the field of Algorithmic Fairness for

Congratulations! You've narrowed down your interests in algorithms.

Yes

Remember, algorithms are constantly evolving! Explore emerging areas like Algorithmic Optimization for AI, Quantum Machine Learning, or Natural Language Processing with Neural Networks.

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Are you passionate about ensuring

fairness and ethical considerations in

algorithms?

No

Addressing Bias - identify and mitigate biases in

algorithmic systems, understand ethical

implications of algorithms, and design

algorithms that uphold fairness principles. Think

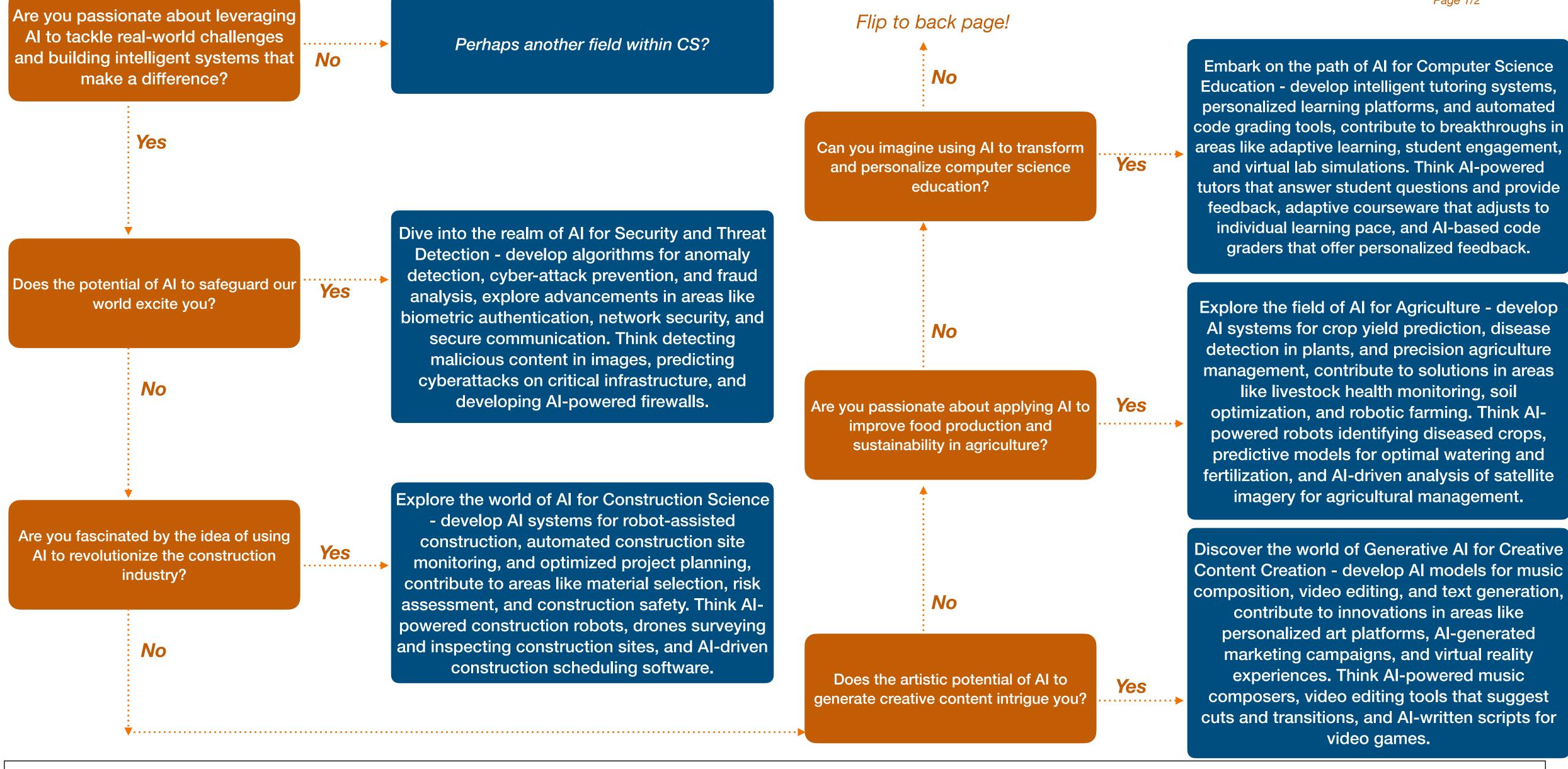
counterfactual reasoning for fairness analysis,

mitigating bias in Al models, and algorithmic

discrimination detection.

Al Applications

Page 1/2



Al Applications

Explore the field of Al for Physics and Scientific Does the mystery of the universe Discovery - develop Al models for data analysis, and the potential of AI to unlock its anomaly detection, and hypothesis generation Yes secrets excite you? in physics experiments, contribute to breakthroughs in areas like particle physics simulations, astrophysical data analysis, and material science discovery. Think Al-powered No telescopes analyzing astronomical data, Al models explaining particle collisions in accelerators, and Al-driven material property prediction for next-generation technologies.

Can you imagine building intelligent systems that interact with the physical world through robots and automation?

No

Embark on the part of Control - development of Contr

Yes

Medicine
image a
person

Embark on the path of Robotics and Intelligent Control - develop algorithms for robot vision, navigation, and manipulation, build autonomous systems for tasks like object grasping, path planning, and collaborative robotics. Think multi-agent systems, industrial robots with Al vision, drones navigating complex environments, and collaborative robots assisting humans in healthcare.

Explore the field of AI for Healthcare and Medicine - develop AI systems for medical image analysis, disease prediction, and personalized healthcare, contribute to breakthroughs in areas like drug discovery, medical diagnosis, and patient care. Think medical image classification for early disease detection, AI-powered medical diagnosis tools, and virtual assistants for mental health support.

Congratulations! You've narrowed down your interests in Al applications.

Analyze specific subfields within your chosen area and identify research problems that align with your skills and passion!

Remember, Al applications are constantly evolving! Explore emerging areas like Al for Personalized Education, Explainable Al for Transparent decision-making, or Al for Climate Change Mitigation.

No

Are you intrigued by the potential of Al to transform entire industries and revolutionize society?

Yes

Discover the world of Al for Social Good and Sustainability - develop Al systems for tasks like disaster management, climate change mitigation, and resource optimization, contribute to solving global challenges and building a more sustainable future. Think Alpowered systems for predicting natural disasters, optimizing energy grids for sustainability, and analyzing social media data for public good.

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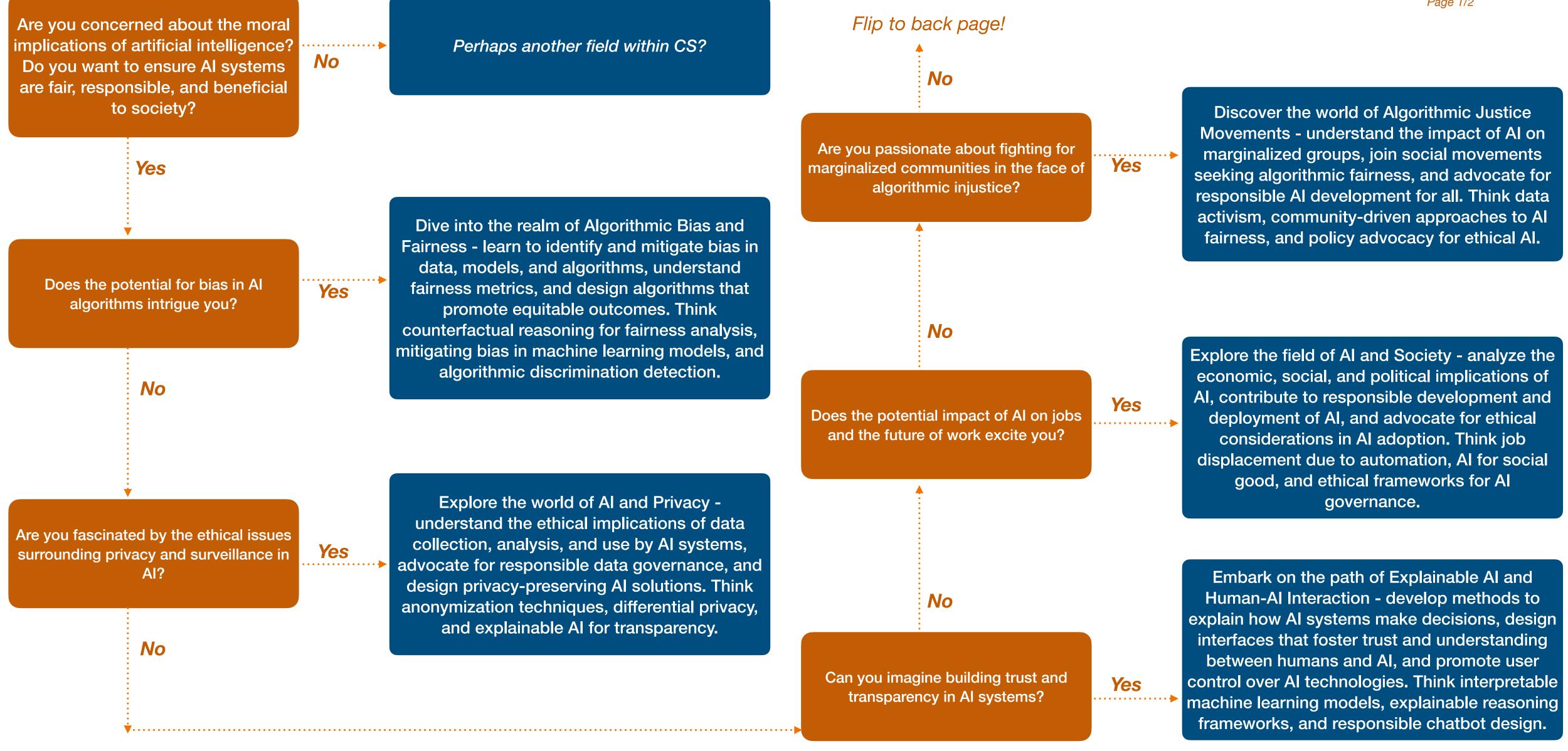
Does the idea of using AI to improve

human health and well-being motivate

you?

No

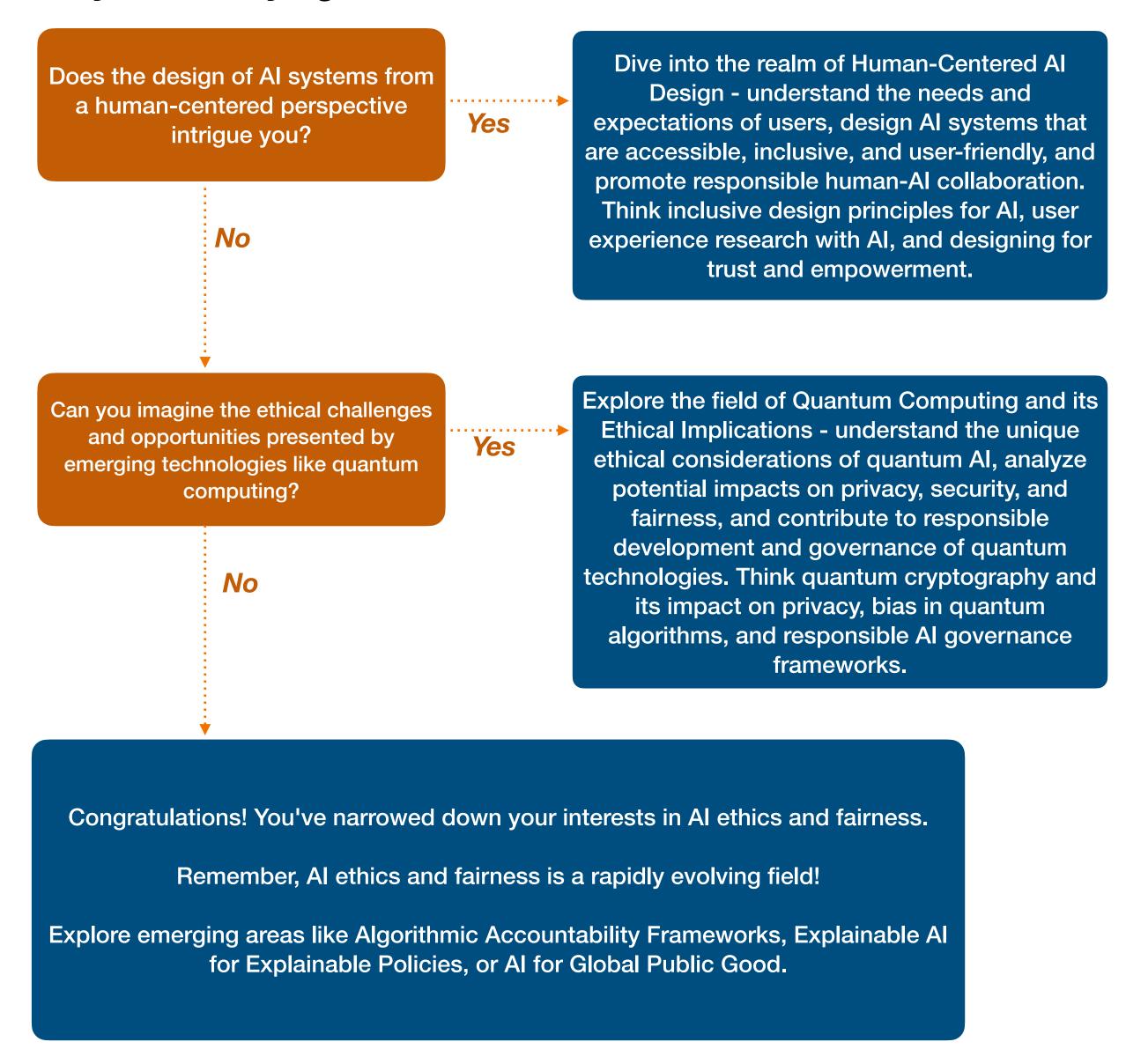
Al Ethics/Fairness



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Al Ethics/Fairness

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