

CS 520 Final: Question 4 - The Big Picture

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You cannot be graded on what you don't write down. This problem is to be completed individually, without any coordination with others. Complete each question to the best of your ability. If you write code to solve one of the problems, you must submit that code along with your final answers. Explain your process and algorithms. Be explicit. Answers, without evidence of the thought and process that led to them, will not earn credit.

Pick one of the following. Identify some of the properties and abilities it would need. Identify at least three issues that would be faced in trying to implement or build such a thing, and possible algorithmic solutions for each based on the material covered in class. Credit will be given for thoroughness and detail.

- ArtForgerBot
- CharadesBot
- LieDetectorBot
- SheepdogBot
- PulitzerPrizeWinningBot
- NobelPrizeInChemistyOrBiologyBot
- PsychotherapistBot
- TerrorThreatDetectionBot (must not be susceptible to racial bias)
- ArtForgeryDetectorBot
- DrugTreatmentDesignerBot
- MovieAdvertisingAndPromotionBot
- TakeThisTestForMeBot (that could actually pass)
- HumanConsciousnessBot

Bonus:

- i) Having completed the course, are there any projects you would revisit and improve in light of material you learned later? Be thorough.
- ii) What did my dog dress as for Halloween?
- iii) Draw a picture of my dog in her Halloween costume.