Term paper for CSCI3230 and ESTR3108 (Deadline: Friday 18 Dec 2020)

1. a. Discuss the importance of convergence and divergence for genetic algorithm in detail.

   b. Illustrate the convergence and the divergence of genetic algorithm with real examples.

2. a. Select five most notable algorithms that we learnt in this course. Justify your selections and describe their advantages and disadvantages.

   b. Demonstrate one of the selected algorithms in depth with one application scenario of this algorithm. (*Please do not use DNN as one of the selections in this question.)

3. Suppose you are trying to build the software system for a self-driving car. Describe how to apply the algorithms (multiple) in this course for the agent. (Hints: vision, route planning, decision making etc. by appropriate algorithms.)

   Notes: (i) References are expected.

   (ii) Please submit your term paper to VeriGuide.

   (iii) It is vital to cite all papers/sources you have used.

   (iv) Re-write the contents in your own words and NOT to cut-and-paste.