EECS 839

Homework Assignment # 1

due: February 18, 2020

	Attributes			Decision
	Age	Gender	Education	Hobby
1	32	male	higher	fishing
2	25	female	primary	fishing
3	27	male	higher	fishing
4	25	male	primary	fishing
5	48	male	primary	shooting
6	27	female	primary	shooting
7	65	male	primary	shooting

80 pts. 1. For the following decision table

induce the sets of rules using the MLEM2 algorithm. Use the standard MLEM2 approach to numerical attributes using all cutpoins.

20 pts. 2. In general, for subsets *X* and *Y* of the universe *U*

 $\underline{A}(X-Y) \subseteq \underline{A}X - \underline{A}Y,$

where A is the set of all attributes.

Show a decision table, and subsets X and Y of U with

 $\underline{A}(X - Y) \neq \underline{A}X - \underline{A}Y.$