c) How to efficiently get such specialized model?
How many such models do we need?
Is such specialized model trained online or offline?
Train from raw data or distilled from a general model?
Do we want to make the model robust to dynamic input adaption? What kinds of changes in the input set can we tolerant? How to model such changes?
Can a model easily for input set A be easily turned into another one for input set B?
How are A and B related to each other? Define it.

d) How to detect the input skew/specialization at run time and select a good specialized model for it? ...