

This is a small project on medical diagnosis wherein you have to mention symptoms and this will in turn let you know the disease and treatment.

symptom(fever,influenza,0.8).

symptom(fatigue,influenza,0.7).

symptom(cough,influenza,0.6).

symptom(headache,influenza,0.5).

symptom(sore_throat,influenza,0.4).

symptom(nausea,influenza,0.2).

symptom(rash,measles,0.8).

symptom(fever,measles,0.7).

symptom(cough,measles,0.6).

symptom(runny_nose,measles,0.5).

symptom(conjunctivitis,measles,0.4).

treatment(influenza,[rest,fluids,antiviral_medication]).

treatment(measles,[bed_rest,fluids,antipyretics]).

diagnose(Symptoms,Condition,Treatment):-

 symptom(Symptom,Condition,Likelihood),

 member(Symptom,Symptoms),

 aggregate_all(sum(Likelihood),symptom(Symptom,Condition,Likelihood),Score),

 Score>=0.5,

 treatment(Condition, Treatment).

OUTPUT:

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?- diagnose([fever,cough,headache],Condition,Treatment).  
Condition = influenza,  
Treatment = [rest, fluids, antiviral_medication] .  
  
?- diagnose([runny_nose,headache,fracture],Condition,Treatment).  
Condition = influenza,  
Treatment = [rest, fluids, antiviral_medication] ;  
Condition = measles,  
Treatment = [bed_rest, fluids, antipyretics] ■
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