



PROBLEM SOLVING



HOW TO MAKE AN EXPERTISE AVAILABLE?

There are so many situations where people are facing a problem which needs to be solved. One example could be for a Medical Doctor, based on the information he has, to decide what medication he should prescribe to someone. Another example could be that a particular expertise is only available in particular places and only a few people have access to this. And what will all the other people do which have the same issue? No one will or can help them?

For a given area, experts can solve problems. And if you have the need to make this expertise artificial, available in a software, you need to understand how to solve the problem and the only way to do this is to talk to them.

CREATING AN EXPERT SYSTEM TO SOLVE PROBLEMS

Solving a problem is finding a way, a path going from the starting situation to the exit situation using the best possible ways. All these possible ways are defining what is called the problem space.

Sometimes, you have not just one possible way but many possible ways and you have to decide which way you will go to be successful. And among all these ways, you have the best way, the one which an expert would have selected. And this way is the expert path.

Knowing the problem space, the rules and data used to travel on the



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multiple possible paths of the problem space you are able to measure the distance from the current situation or position to the nearest node belonging to the expert path and you are sure that decisions are taken or reasoning is applied in a way that the next moves are bringing you closer to the solution. Also, because of the context (data), you know that one or more paths should not be explored and your system doesn't process further in this direction.

Once all this is done, you have an expert system.

AND WE ALREADY HAD SUCCESS WITH THIS

For a multinational Fortune 500 staffing company, we designed an expert system to support human resources to manage the impact of the digital transformation on their staff. Many jobs will change and great care needs to be given to this workforce. Based on hard and soft skills, on current and future possible career path and open positions, the smart engine is finding attractive ways forward for these people. But sometimes, more than one possible way was found and we designed a specific scoring engine based on user preferences, skills and steps to go within the problem space (because of costs) to take the best decision for the people and the organization.

Beamak - We make machines think !

Beamak was created in 2016 by Cognitive Psychologists who worked for the French National Center for Scientific Research (C.N.R.S.) and the Computer Science Laboratory for Artificial Intelligence (LAFORIA).

Our functional cognitive architecture using core Psychological components brings to AI engines the ability to understand a context and adapt their attitudes to act and communicate. These components are using Beamak Smart Neuron concept which is processing data in a natural way.

Beamak is helping companies worldwide to accelerate their digital transformation by creating and designing AI solutions which include cognitive and psychological features.

Founders of Beamak worked for over 20 years for leading consulting and technology companies such as Andersen Consulting, Accenture, Cap Gemini or Hewlett-Packard, managing over 200 projects for Fortune 500 companies in EMEA.

At Beamak, we love what we do and we stick to our promises. We would be glad to be part of your next journey.

Looking forward to work with you soon...

