

Expert F

Mixture of experts

solved: Experts $f_1, \dots, f_n$, each taking the same input x , and producing outputs $f_1(x)$

Mixture of experts (MoE) is a machine learning technique where multiple expert networks (learners) are used to divide a problem space into homogeneous regions. MoE represents a form of ensemble learning. They were also called committee machines.

Expert

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An expert is somebody who has a broad and deep understanding and competence in terms of knowledge, skill and experience through practice and education in a particular field or area of study. Informally, an expert is someone widely recognized as a reliable source of technique or skill whose faculty for judging or deciding rightly, justly, or wisely is accorded authority and status by peers or the public in a specific well-distinguished domain. An expert, more generally, is a person with extensive knowledge or ability based on research, experience, or occupation and in a particular area of study. Experts are called in for advice on their respective subject, but they do not always agree on the particulars of a field of study. An expert can be believed, by virtue of credentials, training, education, profession, publication or experience, to have special knowledge of a subject beyond that of the average person, sufficient that others may officially (and legally) rely upon the individual's opinion on that topic. Historically, an expert was referred to as a sage. The individual was usually a profound thinker distinguished for wisdom and sound judgment.

In specific fields, the definition of expert is well established by consensus and therefore it is not always necessary for individuals to have a professional or academic qualification for them to be accepted as an expert. In this respect, a shepherd with fifty years of experience tending flocks would be widely recognized as having complete expertise in the use and training of sheep dogs and the care of sheep.

Research in this area attempts to understand the relation between expert knowledge, skills and personal characteristics and exceptional performance. Some researchers have investigated the cognitive structures and processes of experts. The fundamental aim of this research is to describe what it is that experts know and how they use their knowledge to achieve performance that most people assume requires extreme or extraordinary ability. Studies have investigated the factors that enable experts to be fast and accurate.

Expert system

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In artificial intelligence (AI), an expert system is a computer system emulating the decision-making ability of a human expert.

Expert systems are designed to solve complex problems by reasoning through bodies of knowledge, represented mainly as if-then rules rather than through conventional procedural programming code. Expert systems were among the first truly successful forms of AI software. They were created in the 1970s and then proliferated in the 1980s, being then widely regarded as the future of AI — before the advent of successful artificial neural networks.

An expert system is divided into two subsystems: 1) a knowledge base, which represents facts and rules; and 2) an inference engine, which applies the rules to the known facts to deduce new facts, and can include explaining and debugging abilities.

F Sharp (programming language)

(2007), *Expert F#, Apress Harrop, Jon* (2010), *Visual F# 2010 for Technical Computing, Flying Frog Consultancy Pickering, Robert* (2007), *Foundations of F#, Apress*

F# (pronounced F sharp) is a general-purpose, high-level, strongly typed, multi-paradigm programming language that encompasses functional, imperative, and object-oriented programming methods. It is most often used as a cross-platform Common Language Infrastructure (CLI) language on .NET, but can also generate JavaScript and graphics processing unit (GPU) code.

F# is developed by the F# Software Foundation, Microsoft and open contributors. An open source, cross-platform compiler for F# is available from the F# Software Foundation. F# is a fully supported language in Visual Studio and JetBrains Rider. Plug-ins supporting F# exist for many widely used editors including Visual Studio Code, Vim, and Emacs.

F# is a member of the ML language family and originated as a .NET Framework implementation of a core of the programming language OCaml. It has also been influenced by C#,

Python, Haskell, Scala and Erlang.

Subject-matter expert

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A subject-matter expert (SME) is a person who has accumulated great knowledge in a particular field or topic and this level of knowledge is demonstrated by the person's degree, licensure, and/or through years of professional experience with the subject. For example, a PhD in chemistry could be easily declared as a SME in chemistry, or a person with a Second Class Radiotelegraph License or equivalent issued by the national licensing body could be considered a SME in radiotelegraphy. A person with a master's degree in electronic engineering could be considered a subject-matter expert in electronics, or a person with many years of experience in machining could be considered a SME in machining.

The term is used when developing materials about a topic (a book, an examination, a manual, etc.), and expertise on the topic is needed by the personnel developing the material. For example, tests are often created by a team of psychometricians and a team of SMEs. The psychometricians understand how to engineer a test while the SMEs understand the actual content of the exam. Books, manuals, and technical documentation are developed by technical writers and instructional designers in conjunctions with SMEs. Technical communicators interview SMEs to extract information and convert it into a form suitable for the audience. SMEs are often required to sign off on the documents or training developed, checking it for technical accuracy. SMEs are also necessary for the development of training materials.

Expert Choice

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Expert Choice implements the Analytic Hierarchy Process (AHP) and has been used in fields such as manufacturing, environmental management, shipbuilding and agriculture.

Created by Thomas L. Saaty and Ernest Forman in 1983, the software is supplied by Expert Choice Inc.

Profession

the Division of Expert Labor. Chicago: University of Chicago Press. ISBN 9780226000688. Brint, Steven G (1994). In an Age of Experts: The Changing Role

A profession is a field of work that has been successfully professionalized. It can be defined as a disciplined group of individuals, professionals, who adhere to ethical standards and who hold themselves out as, and are accepted by the public as possessing special knowledge and skills in a widely recognised body of learning derived from research, education and training at a high level, and who are prepared to apply this knowledge and exercise these skills in the interest of others.

Professional occupations are founded upon specialized educational training, the purpose of which is to supply disinterested objective counsel and service to others, for direct and definite compensation, wholly apart from expectation of other business gain. Medieval and early modern tradition recognized only three professions: divinity, medicine, and law, which were called the learned professions. In some legal definitions, a profession is not a trade nor an industry.

Some professions change slightly in status and power, but their prestige generally remains stable over time, even if the profession begins to have more required study and formal education. Disciplines formalized more recently, such as architecture, now have equally long periods of study associated with them.

Although professions may enjoy relatively high status and public prestige, not all professionals earn high salaries, and even within specific professions there exist significant differences in salary. In law, for example, a corporate defense lawyer working on an hourly basis may earn several times what a prosecutor or public defender earns.

Don Syme

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Don Syme is an Australian computer scientist and a Principal Researcher at Microsoft Research, Cambridge, U.K. He is the designer and architect of the F# programming language, described by a reporter as being regarded as "the most original new face in computer languages since Bjarne Stroustrup developed C++ in the early 1980s."

Earlier, Syme created generics in the .NET Common Language Runtime, including the initial design of generics for the C# programming language, along with others including Andrew Kennedy and later Anders Hejlsberg. Kennedy, Syme and Dachuan Yu also formalized this widely used system.

He holds a Ph.D. from the University of Cambridge, and is a member of the IFIP working group on functional programming. He is a co-author of the book Expert F# 3.0.

In the past he also worked on formal specification, interactive proof, automated verification and proof description languages.

In 2015, he was honored with a Silver Medal from the Royal Academy of Engineering.

Expert witness

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An expert witness, particularly in common law countries such as the United Kingdom, Australia, and the United States, is a person whose opinion by virtue of education, training, certification, skills or experience, is accepted by the judge as an expert. The judge may consider the witness's specialized (scientific, technical or other) opinion about evidence or about facts before the court within the expert's area of expertise, to be referred to as an "expert opinion". Expert witnesses may also deliver "expert evidence" within the area of their expertise. Their testimony may be rebutted by testimony from other experts or by other evidence or facts.

Expert report

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In law, expert reports are generated by expert witnesses offering their opinions on points of controversy in a legal case and are typically sponsored by one side or the other in a litigation in order to support that party's claims. The reports state facts, discuss details, explain reasoning, and justify the experts' conclusions and opinions.

In medicine, an expert report is a critical assessment of a medical topic, for example, an independent assessment of the cost–benefit ratio of a particular medical treatment.

As part of survey pretesting, an expert report (using the expert review method) identifies potential problems that could affect data quality and data collection by evaluating survey questionnaires and survey translations.

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