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Topic: **Artificial Intelligence Introduction: From Binary Classification to Multi-class Classification**

Abstract:

In this workshop, we will introduce the basic concept and history of artificial intelligence, neural networks, and deep learning. More specially, we will start from a famous classification model, logistic regression, and sketch out how to derive it from solving binary classification problems to tackle multi-class classification problem. Along the line, more models, such as perceptron, multi-layer perceptron, and state-of-the-art deep learning models will be discussed with some hand-on exercises.

Bio:

Dr. YANG Haiqin is a senior researcher at the Department of Artificial Intelligence, Ping An Life Insurance of China (Ping An Life), and an adjunct associate professor at the Chinese University of Hong Kong. He is an expert in machine learning, where he has published 2 monographs and over fifty journal articles and refereed conference papers. Due to his significant contribution to the field, he was awarded as "the 2018 Asia Pacific Neural Network Society (APNNS) Young Researcher" and is recognized as the Most Influential Scholar Award Honorable Mention for outstanding and vibrant contributions to the field of AAAI/IJCAI between 2009 and 2019.

After joining Ping An Life in fall, 2019, Dr. Yang found the Statistical Artificial Intelligence & Learning Lab (SAIL Lab) to provide two kinds of industrial services, online service (social chats) and offline service (natural language generation engine). He currently focuses on developing machine learning algorithms for natural language processing in industry projects. He also takes roles to serve the research community, where he is a program co-chair of the 27th International Conference on Neural Information Processing (ICONIP2020), a proceeding co-chair of the WebConf'20, was an associate editor of Neurocomputing, and a reviewer of over 10 prestigious journals, such as IEEE TPAMI, IEEE TNNLS, IEEE TKDE, and a (senior) program committee member of top-tier conferences, such as AAAI, AACL, ACL, EMNLP, ICML, IEEE BigData, IJCAI, NeurIPS, etc. He has initiated and co-organized five series of international workshops on the topics of scalable machine learning and scalable data analytics, collocated with IEEE Big Data, ICDM, PAKDD, and WSDM.