**Abstract:** The US spends more than $3 trillion or 18% of GDP annually on health care. Nobody knows how much of this money is misused, but according to the FBI, the amount lost due to fraud, waste and abuse (FWA) ranged between $90B and $330B! This talk will offer practical advice on how to effectively organize and join various health care data such as claim and clinical data, how to appropriately set the problem and design an effective machine learning based solution that will not only detect suspicious FWA leads, but will also direct investigators through a faster review by providing effective visualization and suggesting most likely reasons behind such leads.

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Aleksandar is responsible for overall predictive analytics solutions in health care fraud, waste and abuse detection at Aetna. In addition to the health care industry, he has extensive experience in various analytics projects ranging from banking, credit and insurance industries to diagnostics and computer security applications. He has co-edited a book on cyber security threats, written 8 book chapters and published over 50 research articles, which have been cited more than 3,500 times. He holds a PhD degree in data mining / machine learning from Temple University.