



# Injury Prevention in Federal Government



## Automated Machine Learning for Injury Prevention in the Government

The National Safety Council reports that “Every 7 seconds, a worker is injured on the job.”<sup>1</sup> Outside arenas of military engagement, most injuries are preventable. The federal government fulfills two fundamental roles: as an employer, it protects many millions of employees; and as the maker and enforcer of policies, it protects workers whose efforts create the world’s largest national economy. So broad are the federal government’s responsibilities that the National Center for Biotechnology Information identifies more than fifty federal agencies involved in injury prevention and treatment.

Regulations on injury prevention and reporting mean that events, their victims and the consequences, including compensation claims, constantly generate massive volumes of digital information. By adopting AI and machine learning, federal agencies can put this data to work in the following ways:



Analyze injury data to classify the cause of every injury and assign these to broad categories.



Understand the environmental conditions predicting that a workplace and its practices are susceptible to causing injury.



Formulate policies and procedures that reduce risks specific to workplaces.



Enforce policies to prevent occurrence of injuries.



Monitor injury data to identify unsafe workplaces and take enforcement action.

With DataRobot, the federal government can identify causes of injury by building the right model in minutes rather than months. By advancing their understanding of causes of injury, agencies create programs that reduce its incidence and consequences.

<sup>1</sup> <https://www.ncbi.nlm.nih.gov/books/NBK230579/>



## DataRobot has enabled injury prevention in the following ways:

### Workplace Injury Prevention

Agencies responsible for a broad range of workplaces must understand the different injury types associated with each workplace and constantly collect data as injuries or incidents with the potential to cause injury occur. While machine learning models are highly effective tools, keeping models up-to-date and capable of identifying emerging patterns becomes so time-consuming that it undermines the value of artificial intelligence. Automated machine learning and MLOps keep agencies in control of their AI in order to continuously guard against injuries..

### Predicting susceptibility to injury of services personnel

Analyzing the medical and fitness records of serving and retired services personnel generates deep insights that correlate health and fitness traits with susceptibility to particular injuries. This new understanding can guide decisions on which individuals are best equipped to succeed in specific tasks. This knowledge proves invaluable throughout the human resource lifecycle from initial candidate selection to building effective teams to advising when individuals should refrain from particular activities.

### Predicting leading cause indicators of injury

Whether it is faulty equipment or operational gear that is misdesigned, DataRobot will help discover the predictive factors that could lead to injury.

### Monitoring the effectiveness of new injury prevention programs

New programs developed using insights gleaned from analysis of historical data can be monitored to ensure their effectiveness and can be refined to drive constant reduction in injuries and their consequences.

Contact the Public Sector sales team at DataRobot to learn more:

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