Predicting Athletes' Success based on Physical Built

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Use Case

- Athletes often spend thousands of hours practicing for their sports, while wondering if they have what it takes to make it to the top.

- While not meant to discourage young athletes to work hard on their dream, an objective prediction can help them decide which sports to focus on.

- Today the most people have a vague preconception on what kind of physique a basketball/ football/ soccer player possess.

- It is possible to build a system that will make a more accurate prediction based on all olympic athletes' data with decent accuracy.

Dataset

Basic bio data on athletes and medal results from Athens 1896 to Rio 2016

https://www.kaggle.com/heesoo37/120-years-of-olympic-history-athletes-and-results
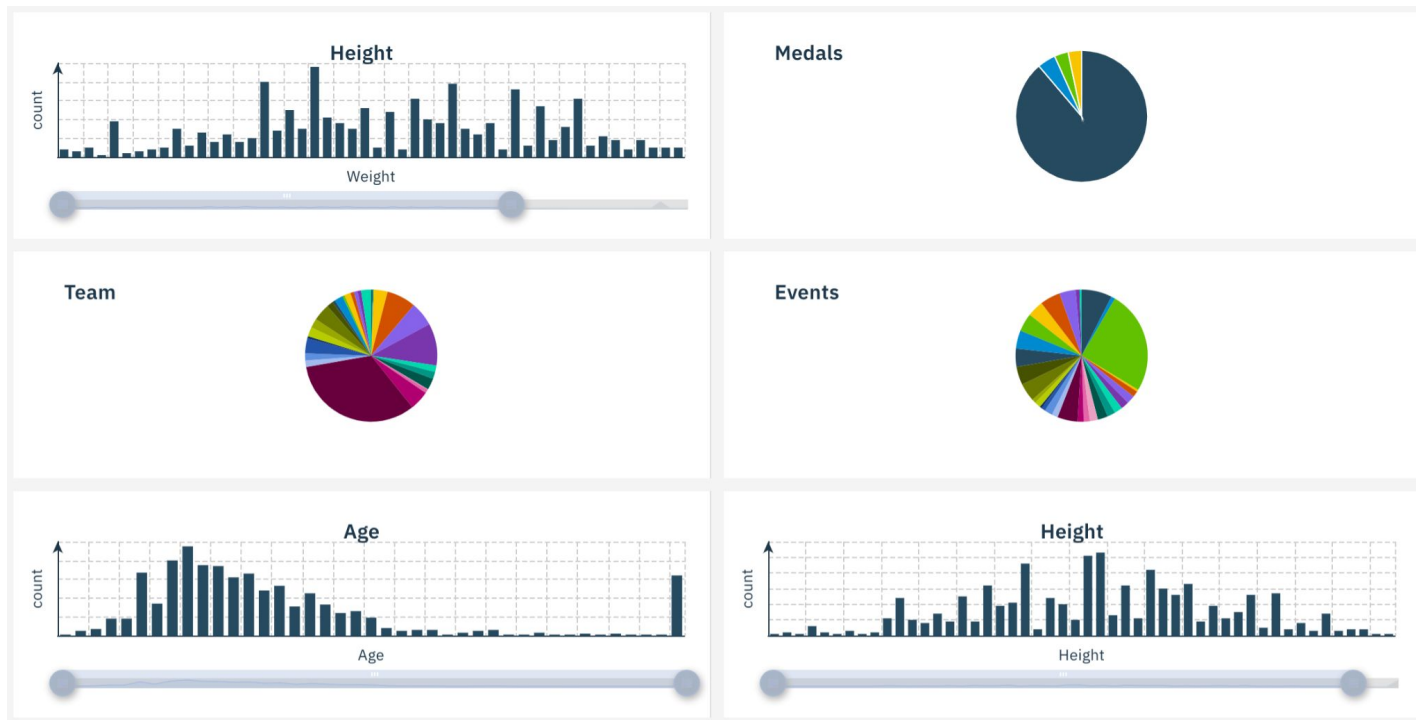
Results

>80% accuracy was reached in predicting whether an athlete will have a medal in olympic games or not.

It means that it is possible to make a fully operable system capable of predicting athletes' success based only on initial medical tests.

It also means that such a system could be used to help athletes and coaches in making the right decision about talent selection and event specialization.

The further work suggested in the direction of enlarging the dataset to achieve higher accuracy and adding additional functionality to the system.