MACHINE LEARNING FOR DECISION-MAKING IN PUBLIC POLICY

PRESENTED BY AZAMAT UZBEKOV SUPPORTED BY JEREMY RAYNER





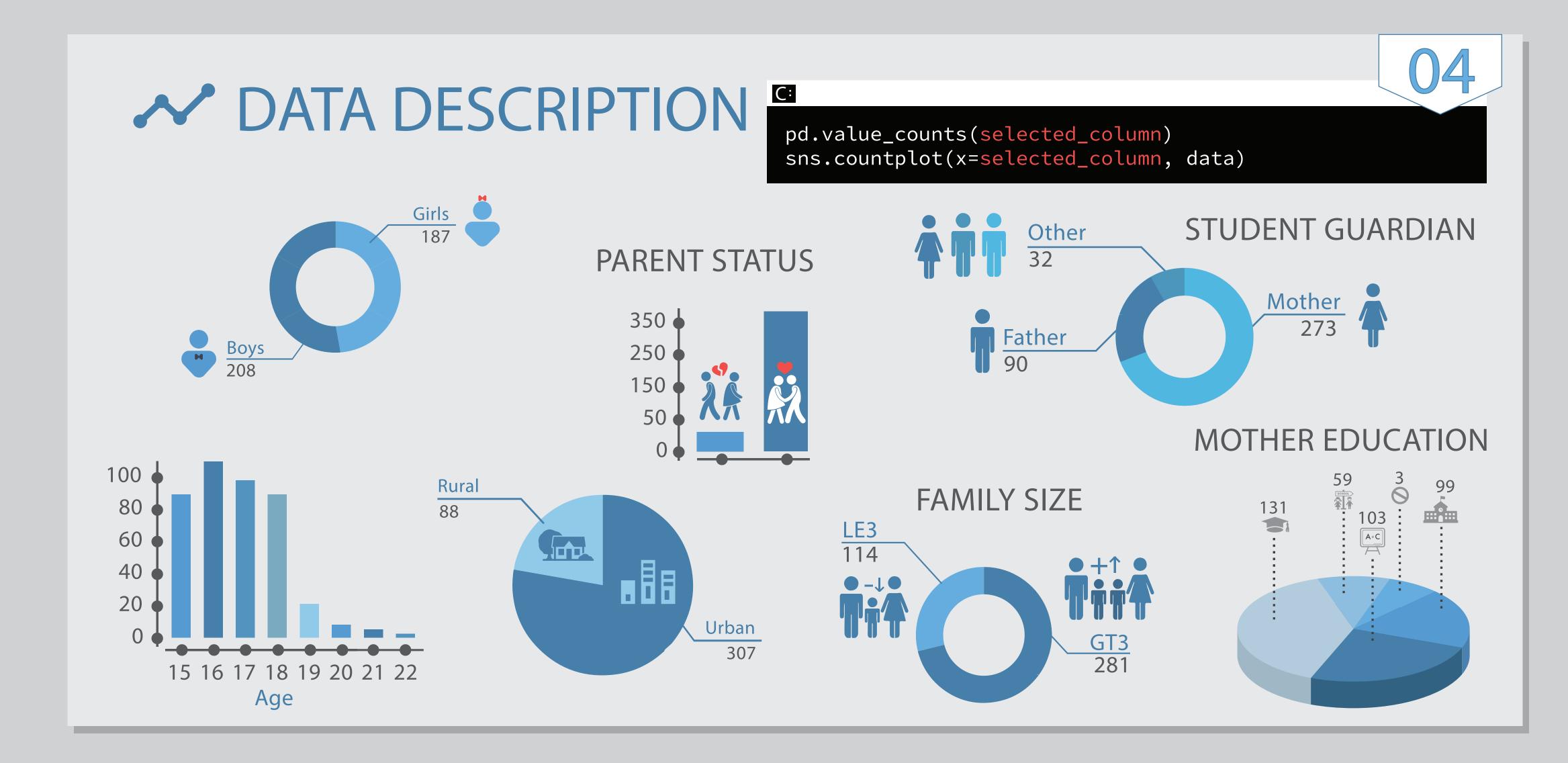
Since the system of public policy is complex, there are a lot of sources of failure. The higher the level of decision making, the higher the influence. To make a correct decision, top-level managers must have not only experience and knowledge, but also tools that may facilitate their work.

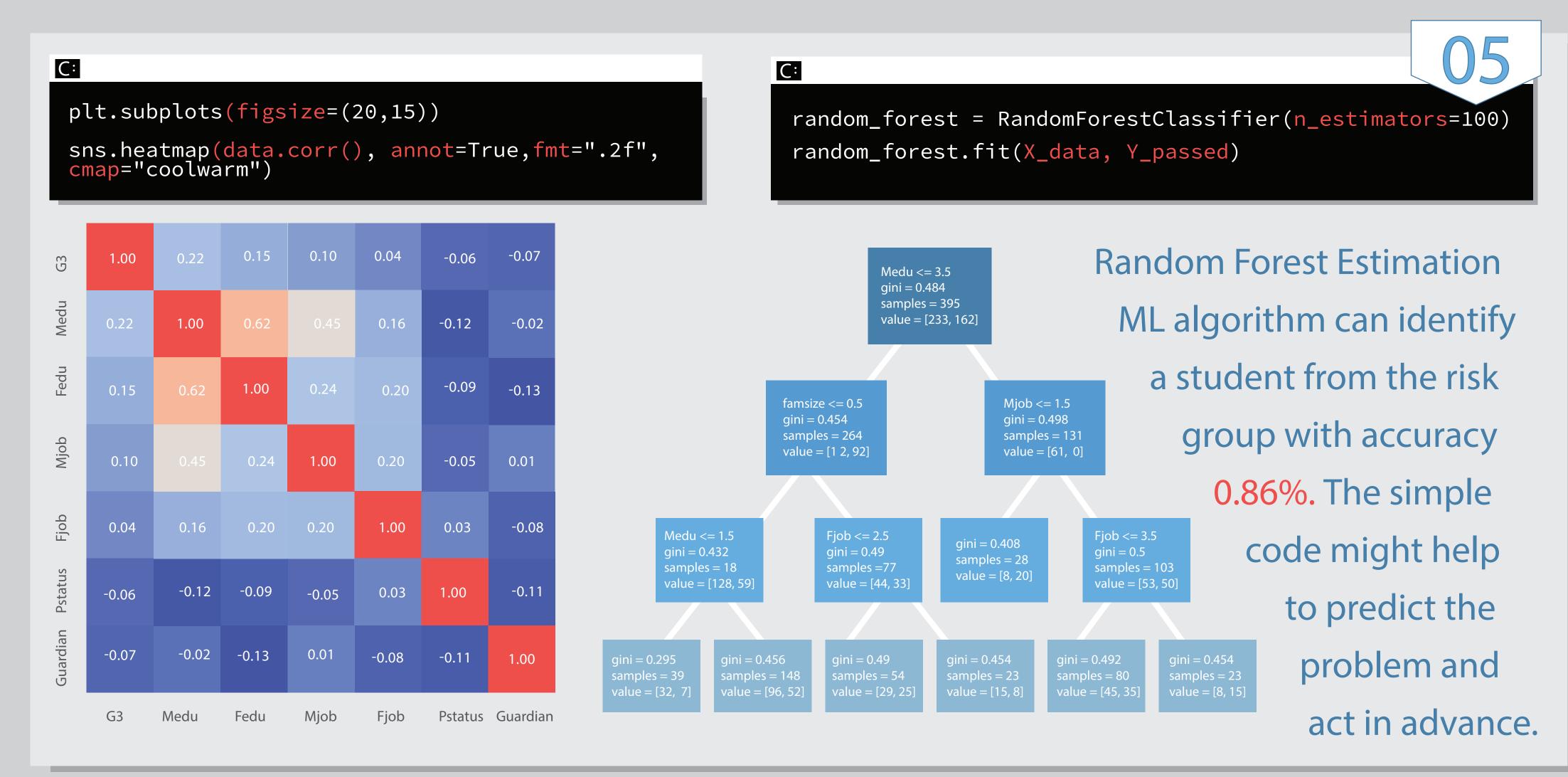


The objective of this work is to show that machine learning is a powerful and easy tool for analysing data and making decision. That is why the research questions of the term project are: "(a) does machine learning bring impact in policymaking?; and (b) how easy it is to dig into a dataset and find a point to make a decision?"

E CASE STUDY

The data of student's performance was taken as an example. By analysing the dataset, it is not clear what the reasons are behind achieving a particular score in the course. There is a need for a more powerful tool that might identify a problematic group of students to reduce the risk of low performance.





PROPOSED SYSTEM

The system consists of two parts:

1) student's information data collection; 2) identification student in the risk. The system might help teachers to know a student who needs an extra assistant. Which may increase overall students' performance and save teachers' time. The system is easy to implement by using Python and ML library.