Summary

The aim of this paper is to research possibilities of collaboration of humans and AI in data science. To achieve this researchers conducted series of studies in field of data science and interviewed several data science specialists on questions about their future job and how using of systems such as Auto AI can change their practices of data science. In addition to that this paper observes how special instruments help data scientists shape their workflow and what problems are existing in that field. Such systems as Google Colab and Jupiter Notebook are reviewed. Also this paper summarizes many studies of data science practices conducted in several past years. In result authors have achieved understanding of how data scientists organize their workflow, what rules and principles are shaping it and what tools they are using to achieve maximum efficiency. Main subject of discussions in this paper is Auto AI – automated system that should help data science team save their efforts of building successful machine learning model. Using studies of data scientists workflow researchers concluded, what parts of data science process could be automated and what parts should remain humanized. Also authors have built a demo version of this system to help readers and interviewed specialists better understand how such applications may look in the future.