Problem Desciption

Data Science, a topic described by some to be the sexiest job in the 21st century (source: <https://apps.derstandard.at/privacywall/story/2000088978702/sexiest-job-data-scientist>). Defined as interdisciplinary field of science that overlaps with techniques and theories from the subjects of mathematics, statistics and information technology, including signal processing, uses probability models of machine learning, statistical learning, programming, data technology, pattern recognition, forecasting, uncertainty modeling and data storage, it is virtually impossible to master all these fiedls.

Data Scientist working in the industry often need to develop tools and applications that are used by others, less versed employees (in terms of IT and program know how). Further, corporate restrictions and limitations concerning availability of tools can be limited, due to policy or security reasons (or both). Under such circumstances Microsoft’s old battle axe “Excel” is often the one and only resort. Even there, developers are stripped off programming alternatives, since Excel Macros are based on Visual Basic for Applications (VBA) which is a downgraded version of Visual Basic.

Given these circumstances, I decided to go deeper this disconcerting, old fashioned topic. My goal is to develop a usable VBA Code, that fullfills the following requirements.

* Shippable to an unlimited amount of users
* Automated update of data basis.
* Automated update of pivot tabels
* Automated selection of client relevant variabels.
* Automated duplication of file if data basis is updated.