Advanced Programming in R Project Proposal

World Bank Data Analytical Dashboards

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The following tools will be included in project:

- Writing own functions in R
- Advanced data processing with dplyr, dtplyr, tidyr
- Shiny + creating analytical dashboards
- Creating own R packages

Short Description of the project:

We want to create an interactive dashboard in Shiny, where the user will be able to generate numerous dynamic charts and animations, based on data loaded by the user (directly from the application panel) from the World Bank, or by connecting to the World Bank API. The user selects the indicators, years and countries of interest. With our R package created, our application will be able to customize the raw input data to create beautiful animated charts. Our library allows to load the data (csv or excel) into the application and formats it accordingly (regardless of the selected indicators and countries). Moreover, the user, after studying the data, will be able to test his knowledge in an interactive quiz we have prepared.

Some screenshots of the current version of our application:





