

## Analytic Plan for Final Lab.

Component of Analytic Plan	Site for loan advice
<b>Phase 1: Discovery</b>	<b>Problem:</b> Expanding the set of services of financial planning company FPC by creating an online site for loan advice. <b>Hypotheses:</b> 1) Demographic information (sex, gender, and ethnicity) improves accuracy of advices 2) Information of personal finances says about financial opportunities of client which is useful to make loan advices <b>Data:</b> Database assembled by federal agencies pursuant to the Home Mortgage Disclosure Act (HMDA)
<b>Phase 2: Data preparation</b>	1) Preparing analytic sandbox: work space for analytic team and others 2) Considering of the scope of the data which is useful to include in the analysis, and filters which will help to set to construct the data set for analysis 3) Examine the distribution of data, such as loan data for home improvement, home purchase, and refinancing loans, to identify the influences on how you will select and create the model
<b>Phase 3: Model Planning</b>	Using open source projects of different technologies to analyze demographic information or information of personal finances and making statistics which will helpful for loan advices
<b>Phase 4: Model building</b>	1) Development of model 2) Getting data sets for testing, training processes 3) Assessment of work of the model
<b>Phase 5: Communicate results</b>	Interpreting of results, identifying key results and making solutions of changes in work for sending more accurate advices and more accurate thresholds

<b>Phase 6: Operationalize</b>	Using of the model, defining process to update and retrain the model, as needed
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