# The Machine Learning Canvas (v0.4) Designed for: Designed by: Date: Iteration: .

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| **Decisions**  How are predictions used to make decisions that provide the proposed value to the end-user?   * Correlação entre as comorbidades e o diagnóstico de derrame pode identificar aqueles fatores que mais causam a enfermidade ou quais são os maiores indicadores que alertam o surgimento desta; * As doenças relacionadas podem, através de suas premissas de cura, também contribuir para a redução de um quadro cumulativo de derrame. | **ML task**  Input, output to predict, type of problem.   * Análise de correlação entre as comorbidades; * Relação individual e em conjunto das comorbidades e o derrame; * Matrizes de dispersão para avaliação de impacto; * Probabilidade de ocorrência; * Input: gender,age,hypertension,heart\_disease,ever\_married,work\_type,Residence\_type,avg\_glucose\_level,bmi,smoking\_status,stroke; * Output: nível do derrame pelo acúmulo de comorbidades. | **Value Propositions**  What are we trying to do for the end-user(s) of the predictive system? What objectives are we serving? | **Data Sources**  Which raw data sources can we use (internal and external)? | **Collecting Data**  How do we get new data to learn from (inputs and outputs)? |
| **Making Predictions**  When do we make predictions on new inputs? How long do we have to featurize a new input and make a prediction? | **Offline Evaluation**  Methods and metrics to evaluate the system before deployment. |  | **Features**  Input representations extracted from raw data sources.   * gender: "Male", "Female" or "Other"; * age: age of the patient; * hypertension: 0 if the patient doesn't have hypertension, 1 if the patient has hypertension; * heart\_disease: 0 if the patient doesn't have any heart diseases, 1 if the patient has a heart disease; * ever\_married: "No" or "Yes"; * work\_type: "children", "Govt\_jov", "Never\_worked", "Private" or "Self-employed"; * Residence\_type: "Rural" or "Urban"; * avg\_glucose\_level: average glucose level in blood; * bmi: body mass índex; * smoking\_status: "formerly smoked", "never smoked", "smokes" or "Unknown"; * stroke: 1 if the patient had a stroke or 0 if not. | **Building Models**  When do we create/update models with new training data? How long do we have to featurize training inputs and create a model? |
|  | **Live Evaluation and Monitoring**  Methods and metrics to evaluate the system after deployment, and to quantify value creation. |  |  |  |

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