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Code System	
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Code System Explainability purposes	Why do participants use ML explainability techniques like PDP and ICE plots? What are they interested in?
Guiding feature engineering	y serve serve serve serve y serve queen serve y serve serve y
Understanding feature-outcome relationships	Trends between features and the model's output. Are the feature-outcome relationships intuitive?
Understanding feature importance Identifying interactions	
Sensitivity analysis	
Model monitoring	
Understanding null values	The participantal current techniques for ML cynleinability
Explainability techniques Convention and familiarity	The participants' current techniques for ML explainability.
Describing differences between clusters	
Residual analysis	Performing residual analysis, such as using surrogate decision trees.
SHAP ALE	
Marginal plots	
Pain point in comparing and understanding different types of plots	
Uses scatter plots to identify interactions	
Don't go in depth on interactions Comparing feature vs. label plots for training and validation	
PDP/ICE	These codes cover participants' current usage of PDP and ICE plots.
Don't primarily look at two-way plots	
Uses ICE plots, but not PDPs	
Uses PDPs and ICE plots Uses PDPs and ICE plots	
Uses PDPs but not ICE plots	
Which features to look at	These codes are about how the participants determine which features to examine in their current ML explainability techniques.
Already have features in mind Earth mover's distance	
Most important features	
Comparing different types of plots for the same feature	
Explores correlated features No good approach to determing which plots to look at	
No good approach to determing which plots to look at PDPilot General Usage	This collection of codes is for general information about participants' experience using PDPilot, without being specific to a particular technique or part of the tool.
Over-reliance on guidance	
Couldn't find use for technique	The participant did not find a situation to use a particular technique, even if they expected that technique to be useful
Didn't know how to do something in PDPilot Tool complexity	The participant did not know how to do something in PDPilot or forgot or misunderstood how a technique works.
PDPilot Techniques Usage	These codes are about how participants used PDPilot, with an emphasis on the ranking, filtering, and clustering.
Interactions	These codes are for how PDPilot supports analyzing interactions, apart from the technique specific codes above.
Not very useful	
Good for analyzing interactions Liked interaction plots	
Ranking	These codes are specific to the different ranking metrics.
Liked importance ranking	
Liked cluster difference Didn't use cluster difference	
Highlighting was useful	This code applies to comments on the usefulness of brushing ICE lines.
Liked highlighted line similarity	
Didn't use highlighted line similarity	
Liked highlighted histogram difference Didn't use highlighted histogram difference	
Did not find sorting by interactions to be useful	
Filtering	These codes apply to filtering, though participants did not talk much about filtering by shape.
Filtering was useful Filtering by shape	Comments about the usefulness of filtering, though not specific to filtering by shape.
Liked two-way filters	
Didn't use one-way filters	
Clustering Clusters and cluster descriptions were useful	These codes apply to clustering and comparisons between using the cluster descriptions vs. brushing and the ranking metrics.
Prefered highlighting over clusters	
Prefered clusters over highlighting	
PDPilot improvements Outliers, overfitting, and skewed distributions	This group of codes is for suggestions and ideas for how to improve PDPilot. These codes deal with concerns and strategies about dealing with outliers, skewed feature distributions, and the model overfitting.
Problem with few instances	moss souss usu, with concerns and strategies about dealing with outliers, shewed realtire distributions, and the model overlitting.
Outliers affecting rankings	
Removing outliers	
Excluding features Iterative approach to handling overfitting	
Weighting metrics by data distribution	
Concerned about correlated variables	
Are plots trustworthy Alternative to two-way scatter plot	
Using different importance metric	
Visualization sizing issue	
Saving and exporting findings Confused by cluster description stacked bar chart	
Confused by cluster description stacked bar chart Easier to highlight clusters	
Incorporating information about errors	
Handling null values	
Study limitations Uninteresting dataset	These codes are for issues that reflect limitations in the user study design.
Unfamiliar dataset	
Didn't have a goal in mind	
Benefits of PDPilot	Benefits of PDPilot and general compliments.
Exploratory vs. hypothesis driven approach Pre-computed	
Compliment	
Creating plots by hand	
Better at identifying heterogenous trends Interaction	Comments on feature interaction
Anonymize	Code to anonymize segments.