

Figure 1: Code Outline

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1 Parameter initializations
2 for each company do
3   Build applicant dataset (sans labels column)
4   Assign row and column names to applicant dataset
5   Perform logic correction on applicant dataset
6   Generate labels using criteria number
7   Add labels column to the applicant dataset
8   Set Controls for model training, e.g train/test split, etc.
9   Train model using training set, save model for future ref
10  Create User1's applicant feature vector
11  Pass AFV through the trained model to get a label.
12  Save the label in 'myPersonalizedLabels' vector
13  Save other datasets for future reference.
14 end
15 Build company dataset (sans labels column)
16 Assign row and column names to company dataset
17 Perform logic correction on company dataset
18 Add 'myPersonalizedLabels' as the labels column for company dataset
19 Set Controls for training the 'Personalized Job Classifier' model
20 Train model using training set, save model.
21 Done! Use the model on 'new' unseen companies.
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