1. \***Data** **Preparation**\*:

- Loaded a dataset containing job-related features and created dummy variables for categorical features.

- The dataset has 46 columns and no missing values.

2. \***Feature** **Selection**\*:

- Set up the Sequential Forward Selection (SFS) to select the best combination of features for classification.

- The target variable is company\_size\_S, which appears to be binary (based on the context).

3. \***Models** **&** **Results**\*:

- Ran two feature selection processes:

- First with k\_features=6, which resulted in an accuracy of 0.7308 using 6 selected features.

- Then expanded k\_features to (1,11), yielding 10 features with a slightly improved accuracy of 0.7383.

4. \***Selected** **Features**\*:

- The final 10 features include various job titles, job categories, salary currencies, employment types, and location-based attributes, suggesting these factors influence the target prediction.

5. \***Model** **Saving**\*:

- Saved the final forward feature selection model using pickle for future reuse.