

CASE 2

Data Preparation & Preprocessing

1. Launch SAS Enterprise Miner

Steps: Please refer to SAS EM Installation Part 2.

1. Sign on the Control Center at <https://odamid.oda.sas.com>
2. Click SAS Enterprise Miner link which will start downloading a file (e.g., main.jnlp).
3. Run the downloaded file (e.g., main.jnlp).
4. If JAVA Update window appears, click Later.
5. Click Run

2. Opening an existing project (e.g., PA2020)

Steps: Click Open Project → Select PA2020 → Click OK

3. Creating new diagram

Steps: File → New → Diagram (e.g., Case 2)

4. Adding a SAS dataset to Data Sources

Steps: File → New → Data Source → Source: SAS Table → Click Browser → Click padata → Click data file (e.g., Bank_personal_loan)

5. Adding SAS Dataset in Diagram Workspace

Steps: Data Sources in Project panel → Move data source to Diagram panel

6. Exploring Variables

Steps: Click the data source node and right click → Select Edit Variables → Select all variables (Use Shift or Control key) → Click Explore

7. Changing Variable Roles & Types

Steps: Click the data source node and right click → Select Edit Variables → Change Role and Level of variable(s) (Please refer to the class note for variable roles and types)

8. Adding Impute Node

Steps: Modify → Impute → Select Mean for Default Input Method of Interval Variables in Property panel → Run

9. Exploring Updated Data

Steps: Select Impute → Click the ellipsis next to Exported Data in Property Panel → Select Train → Click Explore

- Check Minimum, Maximum, and Mean for variables

10.Adding Transform Variables Node

Steps: Modify ➔ Transform Variables ➔ Select Dummy Indicators for Class Inputs and Class Targets in Property panel ➔ Run

11.Exploring Updated Data

Steps: Select Transform Variables ➔ Click the ellipsis next to Exported Data in Property Panel ➔ Select Train ➔ Click Explore

- Check new variables created by Transform Variables node.

12.Dropping Unnecessary Dummy Indicators

Steps: Modify ➔ Drop ➔ Click the ellipsis next to Variables in Property panel ➔ Change Drop value from Default to Yes so that we can drop a variable. Drop all dummy indicators for No, Education 1, and NotAccepted (e.g., TI_CD_Account1). Note that you need to drop 6 dummy indicators.