List 10: prediction for logit/probit-regressions

N.V. Artamonov

Содержание

1 labour force equation

For the dataset `TableF5-1` consider regression **LFP на WA, log(FAMINC), WE, KL6, K618, CIT, UN** of the following specifications:

- logit
- probit

Consider people with characteristics

```
=================================
  WA FAMINC WE KL6 K618 CIT  UN
---------------------------------
1 35 12500  15  2   0    1    5
2 40  9800  12  1   2    0  7.500
3 42 67800  14  2   1    1    3
---------------------------------
```

Evaluate prediction for each individual in the sample. **Round the answer to 3 decimal places.**

Answer:

```
=======================
  Pred.logit Pred.probit
-----------------------
1   0.209       0.214
2   0.300       0.307
3   0.192       0.196
-----------------------
```

2 approve equation

For the dataset `loanapp` consider regression **approve на appinc/100, mortno, unem, dep, male** of the following specifications:

- logit

- probit

Consider people with characteristics

```
============================
  appinc mortno unem  dep male
----------------------------
1  120     1    1.800  0   1
2   48     1    3.200  0   0
3   82     0    3.900  1   1
----------------------------
```

Evaluate prediction for each individual in the sample. **Round the answer to 3 decimal places.**

Answer:

```
=======================
  Pred.logit Pred.probit
-----------------------
1   0.941       0.943
2   0.930       0.930
3   0.853       0.853
-----------------------
```

3 swiss labour force equation

For the dataset `SwissLabour` consider regression **participation на income, income^2, age, age^2, youngkids, oldkids** of the following specifications:

- logit
- probit

Consider people with characteristics

```
================================
  income  age  youngkids oldkids
--------------------------------
1 11.367 2.500     0         0
2 9.217  3.700     2         0
3 10.686 4.200     2         1
--------------------------------
```

Evaluate prediction for each individual in the sample. **Round the answer to 3 decimal places.**

Answer:

```
=======================
  Pred.logit Pred.probit
-----------------------
1   0.367       0.371
2   0.626       0.624
3   0.182       0.186
-----------------------
```