Evan Reid

University of Wisconsin – Stout

MSCS 335 – Machine Learning

Current Population Survey Dataset Description

The Current Population Survey is one of the oldest, largest, and most recognized surveys in the United States. This survey provides information about individuals in society such as work, earnings, and our education. The CPS is used to collect data for a variety of other studies that keep the nation informed of the economic and social well-being of its people. This survey is taken monthly, however the Census Bureau website does not provide the raw data of survey responses from individuals unless you have the access rights. However, a few months of the survey have been published online. The August 2016 CPS dataset can be found in a raw .CSV format on Kaggle.com via the following link:

https://www.kaggle.com/census/current-population-survey

I wanted to create a dataset that is much like the UCI Adult dataset (from 1995):

http://mlr.cs.umass.edu/ml/datasets/Adult

The 2016 CPS dataset has many columns and many incomplete survey answers, so I edited the to capture the most relevant data. It is important to note that I have stripped the data of any multiple-job holding individuals, so the below data only reflects individuals with a single occupation. This updated version of the 2016 CPS dataset is very similar to the UCI adult dataset with some added columns.

The Current Population Survey (CPS) is administered, processed, researched and disseminated by the U.S. Census Bureau on behalf of the Bureau of Labor Statistics (BLS).

Column Headers

1. PRTAGE (Numerical) – Persons age in years Valid Entries: 0 – 99

2. PESEX (Categorical) - Sex (Cate

Valid Entries:

- Male
- 2 Female

3. GESTFIPS (Categorical) – State Code Valid Entries:

30

MT

01	AL
02	AK
04	Δ7

02	AK	31	NE
04	AZ	32	NV
05	AR	33	NH
06	CA	34	NJ
80	CO	35	NM
09	CT	36	NY
10	DE	37	NC

11	DC	38	ND
12	FL	39	ОН
13	GA	40	OK
15	HI	41	OR
16	ID	42	PA
17	IL	44	RI
18	IN	45	SC
19	IA	46	SD
20	KS	47	TN
21	KY	48	TX
22	LA	49	UT
23	ME	50	VT
24	MD	51	VA
25	MA	53	WA
26	MI	54	WV
27	MN	55	WI
28	MS	56	WY
29	MO		

4. PRCITSHP (Categorical) - Citizenship status

Valid Entries:

- 1 NATIVE, BORN IN THE UNITED STATES
- 2 NATIVE, BORN IN PUERTO RICO OR OTHER U.S. ISLAND AREAS
- 3 NATIVE, BORN ABROAD OF AMERICAN PARENT OR PARENTS
- 4 FOREIGN BORN, U.S. CITIZEN BY NATURALIZATION
- 5 FOREIGN BORN, NOT A CITIZEN OF THE UNITED STATES

5. PTDRACE (Categorical) - Race

Valid Entries:

- 1 White Only
- 2 Black Only
- 3 American Indian, Alaskan Native Only
- 4 Asian Only
- 5 Hawaiian/Pacific Islander Only
- 6 White-Black
- 7 White-AI
- 8 White-Asian
- 9 White-HP
- 10 Black-AI
- 11 Black-Asian
- 12 Black-HP
- 13 Al-Asian
- 14 AI-HP
- 15 Asian-HP

6. PEMARITL (Categorical) – Marital status

Valid Entries:

- 1 MARRIED SPOUSE PRESENT
- 2 MARRIED SPOUSE ABSENT
- 3 WIDOWED
- 4 DIVORCED
- 5 SEPARATED
- 6 NEVER MARRIED

7. HRNUMHOU (Numerical) – Total number of persons living in household

Valid Entries: 0-16

8. PRNMCHLD (Numerical) – Number of own children under 18 years of age

Valid Entries: 0 - 99

9. PEEDUCA (Numerical/Categorical) – Highest level of school completed, or degree received Valid Entries:

- 31 LESS THAN 1ST GRADE
- 32 1ST, 2ND, 3RD OR 4TH GRADE
- 33 5TH OR 6TH GRADE
- 34 7TH OR 8TH GRADE
- 35 9TH GRADE
- 36 10TH GRADE
- 37 11TH GRADE
- 38 12TH GRADE NO DIPLOMA
- 39 HIGH SCHOOL GRAD-DIPLOMA OR EQUIV (GED)
- 40 SOME COLLEGE BUT NO DEGREE
- 41 ASSOCIATE DEGREE-OCCUPATIONAL/VOCATIONAL
- 42 ASSOCIATE DEGREE-ACADEMIC PROGRAM
- 43 BACHELOR'S DEGREE (EX: BA, AB, BS)
- 44 MASTER'S DEGREE (EX: MA, MS, MEng, MEd, MSW)
- 45 PROFESSIONAL SCHOOL DEG (EX: MD, DDS, DVM)
- 46 DOCTORATE DEGREE (EX: PhD, EdD)

10. PRCOW1 (Categorical) - Class of worker

Valid Entries:

- 1 FEDERAL GOVT
- 2 STATE GOVT
- 3 LOCAL GOVT
- 4 PRIVATE (INCL. SELF-EMPLOYED INCORP.)
- 5 SELF-EMPLOYED, UNINCORP.
- 6 WITHOUT PAY

11. PRDTIND1 (Categorical) – Industry of worker

Valid Entries:

- 1 Agriculture
- 2 Forestry, logging, fishing, hunting, and trapping
- 3 Mining
- 4 Construction
- 5 Nonmetallic mineral product manufacturing
- 6 Primary metals and fabricated metal products
- 7 Machinery manufacturing
- 8 Computer and electronic product manufacturing
- 9 Electrical equipment, appliance manufacturing
- 10 Transportation equipment manufacturing
- 11 Wood products
- 12 Furniture and fixtures manufacturing
- 13 Miscellaneous and not specified manufacturing
- 14 Food manufacturing
- 15 Beverage and tobacco products

16	Textile, apparel, and leather manufacturing		
17	Paper and printing		
18	Petroleum and coal products manufacturing		
19	Chemical manufacturing		
20	Plastics and rubber products		
21	Wholesale trade		
22	Retail trade		
23	Transportation and warehousing		
24	Utilities		
25	Publishing industries (except internet)		
26	Motion picture and sound recording industries		
27	Broadcasting (except internet)		
28	Internet publishing and broadcasting		
29	Telecommunications		
30	Internet service providers and data processing services		
31	Other information services		
32	Finance		
33	Insurance		
34	Real estate		
35	Rental and leasing services		
36	Professional and technical services		
37	Management of companies and enterprises		
38	Administrative and support services		
39	Waste management and remediation services		
40	Educational services		
41	Hospitals		
42	Health care services, except hospitals		
43	Social assistance		
44	Arts, entertainment, and recreation		
45	Accommodation		
46	Food services and drinking places		
47	Repair and maintenance		
48	Personal and laundry services		
49	Membership associations and organizations		
50	Private households		
51	Public administration		
52	Armed forces		
12 DDD	TOCC1 (Categorical) - Occupation of Worker		
12. PRDTOCC1 (Categorical) – Occupation of Worker Valid Entries:			
1 Management occupations			
2	Business and financial operations occupations		
_	business and inialicial operations occupations		

- 3 Computer and mathematical science occupations
- 4 Architecture and engineering occupations
- 5 Life, physical, and social science occupations
- 6 Community and social service occupations
- 7 Legal occupations
- 8 Education, training, and library occupations
- 9 Arts, design, entertainment, sports, and media occupations
- 10 Healthcare practitioner and technical occupations
- 11 Healthcare support occupations
- 12 Protective service occupations
- Food preparation and serving related occupations

- 14 Building and grounds cleaning and maintenance occupations
- 15 Personal care and service occupations
- 16 Sales and related occupations
- 17 Office and administrative support occupations
- 18 Farming, fishing, and forestry occupations
- 19 Construction and extraction occupations
- 20 Installation, maintenance, and repair occupations
- 21 Production occupations
- 22 Transportation and material moving occupations
- 23 Armed Forces

13. PRHRUSL (Numerical/Categorical) – Usual hours worked weekly

Valid Entries:

- 1 0-20 HRS
- 2 21-34 HRS
- 3 35-39 HRS
- 4 40 HRS
- 5 41-49 HRS
- 6 50 OR MORE HRS

14. HEFAMINC (Numerical/Categorical) – Family Income expressed as an integer representing income groups Valid Entries:

- 1 LESS THAN \$5,000
- 2 5,000 TO 7,499
- 3 7,500 TO 9,999
- 4 10,000 TO 12,499
- 5 12,500 TO 14,999
- 6 15,000 TO 19,999
- 7 20,000 TO 24,999
- 8 25,000 TO 29,999
- 9 30,000 TO 34,999 10 35,000 TO 39,999
- 10 35,000 TO 39,999 11 40,000 TO 49,999
- 12 50,000 TO 59,999
- 13 60,000 TO 74,999
- 14 75,000 TO 99,999
- 15 100,000 TO 149,999
- 16 150,000 OR MORE

15. INCOVER50 (Categorical) – Value representing if the family income meets 50,000 a year.

Valid Entries: 0 and 1, 1 meaning income is 50,000 or greater

16. ISMARRIED (Categorical) – Value representing if the individual is married.

Valid Entries: 0 and 1, 1 meaning the individual is married