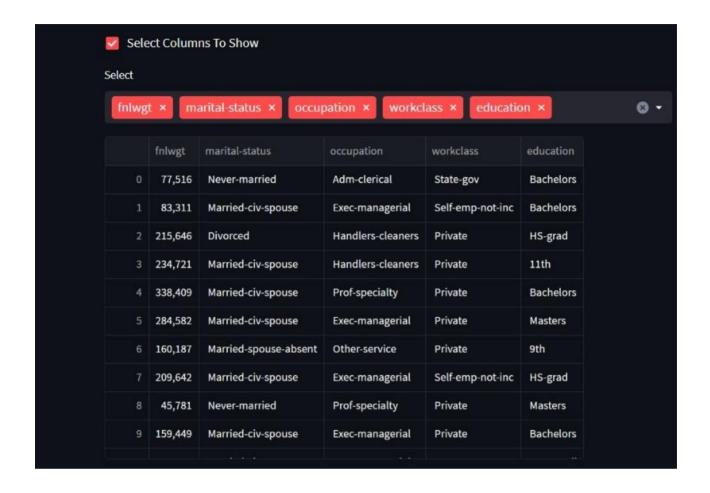


## Contents

1. Page 1 -

Salary-Predicition-Web-App-Machine-Learning-Productionized Machine Learning Model for Salary Prediction



## **Salary Prediction**

Demographics

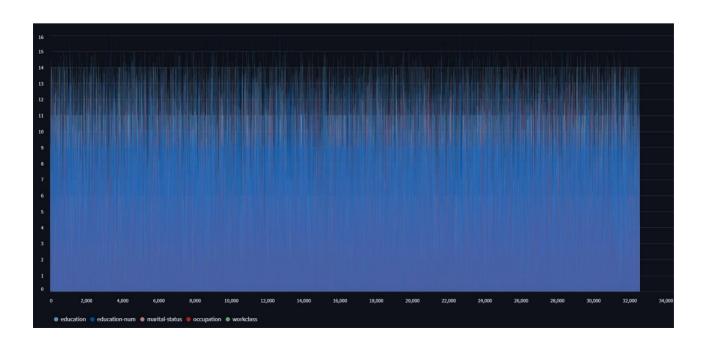
Select Country

Canada

## Canada

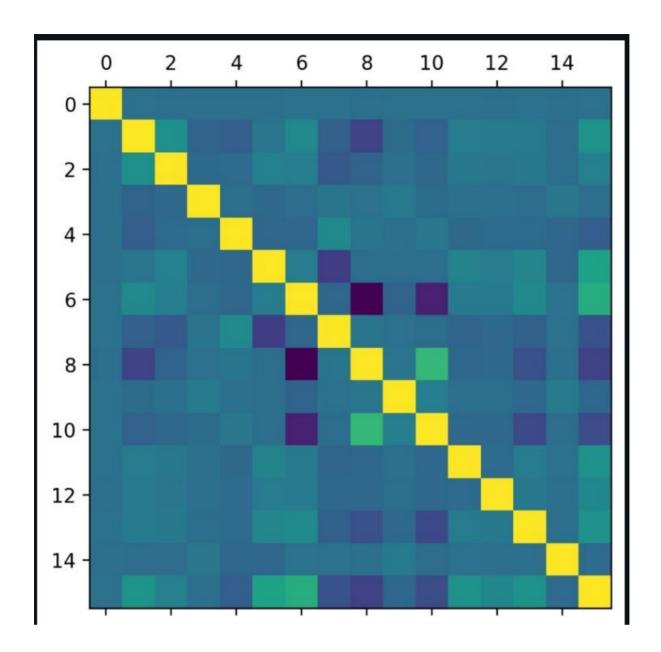
| 112<br>266<br>593 | 56<br>19                                  | workclass  Self-emp-not-inc ?                            | 335,605<br>218,956   | education  HS-grad  Some-college   | education-num<br>9  |   |
|-------------------|---|--|--|--|---|---|
| 266               | 19  |  |  |  |   | Married-civ-spouse  |
|                   |   | ?  | 218,956  | Some-college   |   |   |
| 593               | 31  |  |  | oome conege  | 10  | Never-married   |
|                   |   | Private  | 168,387  | Bachelors  | 13  | Married-civ-spouse  |
| 1,051             | 53  | Self-emp-not-inc   | 263,925  | Bachelors  | 13  | Married-civ-spouse  |
| 1,314             | 32  | Private  | 509,350  | Some-college   | 10  | Married-civ-spouse  |
| 1,379             | 32  | Private  | 97,429   | Bachelors  | 13  | Divorced  |
| 1,688             | 53  | Private  | 117,496  | 9th  | 5   | Divorced  |
| 1,938             | 50  | State-gov  | 159,219  | Bachelors  | 13  | Married-civ-spouse  |
| 2,284             | 29  | Private  | 40,083   | Doctorate  | 16  | Never-married   |
| 2,327             | 25  | ?  | 41,107   | Bachelors  | 13  | Married-spouse-ab   |
|                   | 1,314<br>1,379<br>1,688<br>1,938<br>2,284 | 1,314 32<br>1,379 32<br>1,688 53<br>1,938 50<br>2,284 29 | 1,314 32 Private 1,379 32 Private 1,688 53 Private 1,938 50 State-gov 2,284 29 Private | 1,314       32       Private       509,350         1,379       32       Private       97,429         1,688       53       Private       117,496         1,938       50       State-gov       159,219         2,284       29       Private       40,083 | 1,314     32     Private     509,350     Some-college       1,379     32     Private     97,429     Bachelors       1,688     53     Private     117,496     9th       1,938     50     State-gov     159,219     Bachelors       2,284     29     Private     40,083     Doctorate | 1,314     32     Private     509,350     Some-college     10       1,379     32     Private     97,429     Bachelors     13       1,688     53     Private     117,496     9th     5       1,938     50     State-gov     159,219     Bachelors     13       2,284     29     Private     40,083     Doctorate     16 |

|    | workclass        | education  | marital-status        | occupation        | education-num |
|----|------------------|------------|-----------------------|-------------------|---------------|
| 0  | State-gov        | Bachelors  | Never-married         | Adm-clerical      | 13            |
| 1  | Self-emp-not-inc | Bachelors  | Married-civ-spouse    | Exec-managerial   | 13            |
| 2  | Private          | HS-grad    | Divorced              | Handlers-cleaners | 9             |
| 3  | Private          | 11th       | Married-civ-spouse    | Handlers-cleaners | 7             |
| 4  | Private          | Bachelors  | Married-civ-spouse    | Prof-specialty    | 13            |
| 5  | Private          | Masters    | Married-civ-spouse    | Exec-managerial   | 14            |
| 6  | Private          | 9th        | Married-spouse-absent | Other-service     | 5             |
| 7  | Self-emp-not-inc | HS-grad    | Married-civ-spouse    | Exec-managerial   | 9             |
| 8  | Private          | Masters    | Never-married         | Prof-specialty    | 14            |
| 9  | Private          | Bachelors  | Married-civ-spouse    | Exec-managerial   | 13            |
| 10 | Private          | Some-colle | Married-civ-spouse    | Exec-managerial   | 10            |
| 11 | State-gov        | Bachelors  | Married-civ-spouse    | Prof-specialty    | 13            |
| 12 | Private          | Bachelors  | Never-married         | Adm-clerical      | 13            |
| 13 | Private          | Assoc-acdn | Never-married         | Sales             | 12            |
| 14 | Private          | Assoc-voc  | Married-civ-spouse    | Craft-repair      | 11            |
| 15 | Private          | 7th-8th    | Married-civ-spouse    | Transport-moving  | 4             |
| 16 | Self-emp-not-inc | HS-grad    | Never-married         | Farming-fishing   | 9             |
| 17 | Private          | HS-grad    | Never-married         | Machine-op-inspct | 9             |
| 18 | Private          | 11th       | Married-civ-spouse    | Sales             | 7             |



## **Metrics Section**

| 0 |    |              |          |              | education_num | marital_status     | occupation      |
|---|----|--------------|----------|--------------|---------------|--------------------|-----------------|
|   | 52 | Private      | 12,285   | Doctorate    | 10            | Married-civ-spouse | Farming-fishing |
| 1 | 17 | Never-worked | 12,285   | Some-college | 1             | Separated          | Tech-support    |
| 2 | 17 | Never-worked | 12,285   | Some-college | 1             | Separated          | Tech-support    |
| 3 | 42 | Self-emp-inc | 12,285   | Masters      | 14            | Married-AF-spouse  | Sales           |
| 4 | 42 | Self-emp-inc | 12,285   | Masters      | 14            | Married-AF-spouse  | Sales           |
|   | 42 | Self-emp-inc | 12,285   | Masters      | 14            | Married-AF-spouse  | Sales           |
| 6 | 28 | Private      | 12,285   | Bachelors    | 4             | Never-married      | Tech-support    |
| 7 | 47 | State-gov    | 12,285.1 | Doctorate    | 10            | Married-AF-spouse  | Tech-support    |
| 8 | 47 | State-gov    | 12,285.1 | Doctorate    | 10            | Married-AF-spouse  | Tech-support    |
| 9 | 26 | Private      | 12,285   | Bachelors    | 5             | Separated          | Tech-support    |



| AxesSubplo     | t(0.1   | 25,0   | 11;0      | .62×0   | 1.77)     |               |                |            |              |         |        |              |              |                |                |        |       |
|----------------|---------|--------|-----------|---------|-----------|---------------|----------------|------------|--------------|---------|--------|--------------|--------------|----------------|----------------|--------|-------|
| index -        | 1       | 0.0013 | 0.0064    | -0.0032 | 0.0034    | 0.0011        | 0.0054         | 0.0046     | -0.011       | 0.006   | 0.0025 | 0.0017       | 0.0012       | 0.00061        | 0.0006         | 0.0054 | - 1.0 |
| age -          | 0.0013  | 1      | 0.21      | -0.077  | -0.11     | 0.037         | 0.17           | -0.1       | -0.26        | -0.025  | -0.089 | 0.078        | 0.058        | 0.069          | -0.024         | 0.23   | 22    |
| workclass ·    | 0.0064  | 0.21   | 1         | -0.046  | -0.031    | 0.11          | 0.09           | -0.14      | -0.08        | 0.0065  | -0.061 | 0.053        | 0.032        | 0.052          | -0.018         | 0.1    | - 0.8 |
| fnlwgt -       | -0.0032 | -0.077 | -0.046    | 1       | -0.013    | -0.043        | -0.02          | 0.024      | 0.011        | 0.063   | -0.027 | 0.00043      | -0.01        | -0.019         | 0.042          | 0.0095 | - 0.6 |
| education -    | 0.0034  | -0.11  | -0.031    | -0.013  | 1         | -0.055        | -0.064         | 0.17       | 0.028        | -0.0063 | 0.05   | -0.042       | -0.034       | -0.036         | -0.059         | -0.12  | 0.6   |
| education-num  | 0.0011  | 0.037  | 0.11      | -0.043  | -0.055    | 1             | 0.085          | -0.29      | -0.015       | -0.016  | -0.012 | 0.12         | 80.0         | 0.15           | -0.063         | 0.34   | - 0.4 |
| marital-status | 0.0054  | 0.17   | 0.09      | -0.02   | -0.064    | 0.085         | 1              | -0.06      | -0.59        | -0.076  | -0.44  | 0.075        | 0.071        | 0.16           | 0.013          | 0.4    | 0.7   |
| occupation -   | 0.0046  | -0.1   | 0.14      | 0.024   | 0.17      | -0.29         | -0.06          | 1          | 0.027        | 0.0096  | -0.018 | -0.074       | 0.044        | 0.095          | 0.0096         | -0.19  | - 0.2 |
| relationship   | -0.011  | -0.26  | -0.08     | 0.011   | 0.028     | -0.015        | -0.59          | 0.027      | 1            | 0.038   | 0.47   | -0.055       | -0.046       | 0.2            | 0.0071         | -0.28  | 0.2   |
| race           | 0.006   | -0.025 | 0.0065    | 0.063   | 0.0063    | -0.016        | -0.076         | 0.0096     | 0.038        | 1       | 0.088  | 0.0084       | -0.013       | -0.044         | 0.072          | -0.06  | - 0.0 |
| sex            | 0.0025  | -0.089 | -0.061    | -0.027  | 0.05      | -0.012        | -0.44          | -0.018     | 0.47         | 0.088   | 1      | -0.048       | -0.046       | -0.23          | -0.019         | -0.22  |       |
| capital-gain   | 0.0017  | 0.078  | 0.053     | 0.00043 | -0.042    | 0.12          | 0.075          | -0.074     | -0.055       | 0.0084  | -0.048 | 1            | -0.032       | 0.078          | 0.0063         | 0.22   | 0.2   |
| capital-loss   | 0.0012  | 0.058  | 0.032     | -0.01   | -0.034    | 0.08          | 0.071          | -0.044     | -0.046       | -0.013  | -0.046 | -0.032       | 1            | 0.054          | 0.00074        | 0.15   |       |
| hours-per-week | 0.00061 | 0.069  | 0.052     | -0.019  | -0.036    | 0.15          | 0.16           | -0.095     | -0.2         | -0.044  | -0.23  | 0.078        | 0.054        | 1              | 0.00056        | 0.23   | 0.4   |
| native-country | 0.0006  | -0.024 | -0.018    | 0.042   | -0.059    | -0.063        | 0.013          | 0.0096     | 0.0071       | 0.072   | -0.019 | 0.0063       | 0.00074      | 0.00056        | 1              | -0.032 | 0.703 |
| class ·        | 0.0054  | 0.23   | 0.1       | -0.0095 | -0.12     | 0.34          | 0.4            | -0.19      | -0.28        | -0.06   | -0.22  | 0.22         | 0.15         | 0.23           | -0.032         | 1      | L     |
|                | Index   | age    | workclass | fnlwgt  | education | education-num | marital-status | occupation | relationship | race    | S      | capital-gain | capital-loss | hours-per-week | native-country | class  |       |