|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Feature** | **Description** | **Type** | **Relevance** |
| **R.D.Spend** | Research and Development spend | Continuous, Ratio | Relevant |
| **Administration** | Administration | Continuous, Ratio | Relevant |
| **Marketing.Spend** | Marketing spends | Continuous, Ratio | Relevant |
| **State** | State | Discrete Nominal | Relevant |
| **Profit** | Profit | Continuous, Ratio | Relevant |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.No | Type | R2 | Adj R2 | RMSE | Overall probability | Single probability | Features removed | Observation  removed |
| 1 | Add constant | 0.95 | 0.945 | 8854.76 | Less | Present | - | - |
| 2 | No constant | 0.981 | 0.979 | 16519.68 | less | Present  (compared to above less) | - | - |
| 3 | Add constant | 0.951 | 0.947 | 8855.11 | less | Present  As like 1 | categ\_\_state\_Florida | - |
| 4 | Add constant | 0.95 | 0.947 | 8881.79 | less | Present as like 3 | 'categ\_\_state\_Florida', num\_\_admin | - |
| 5 | Add constant | 0.95 | 0.948 | 8881.79 | less | Probability with high of 0.06 | 'categ\_\_state\_Florida', num\_\_admin,categ\_\_state\_New York | - |
| 6 | Add constant | 0.967 | 0.966 | 6495 | less | No Probability | 'categ\_\_state\_Florida', num\_\_admin,categ\_\_state\_New York | 45,46,49,48,19,14 |