

Crypto Data Set USD/MATIC

Data Cleaning



Present missing value before cleaning



Replaced space and underscore



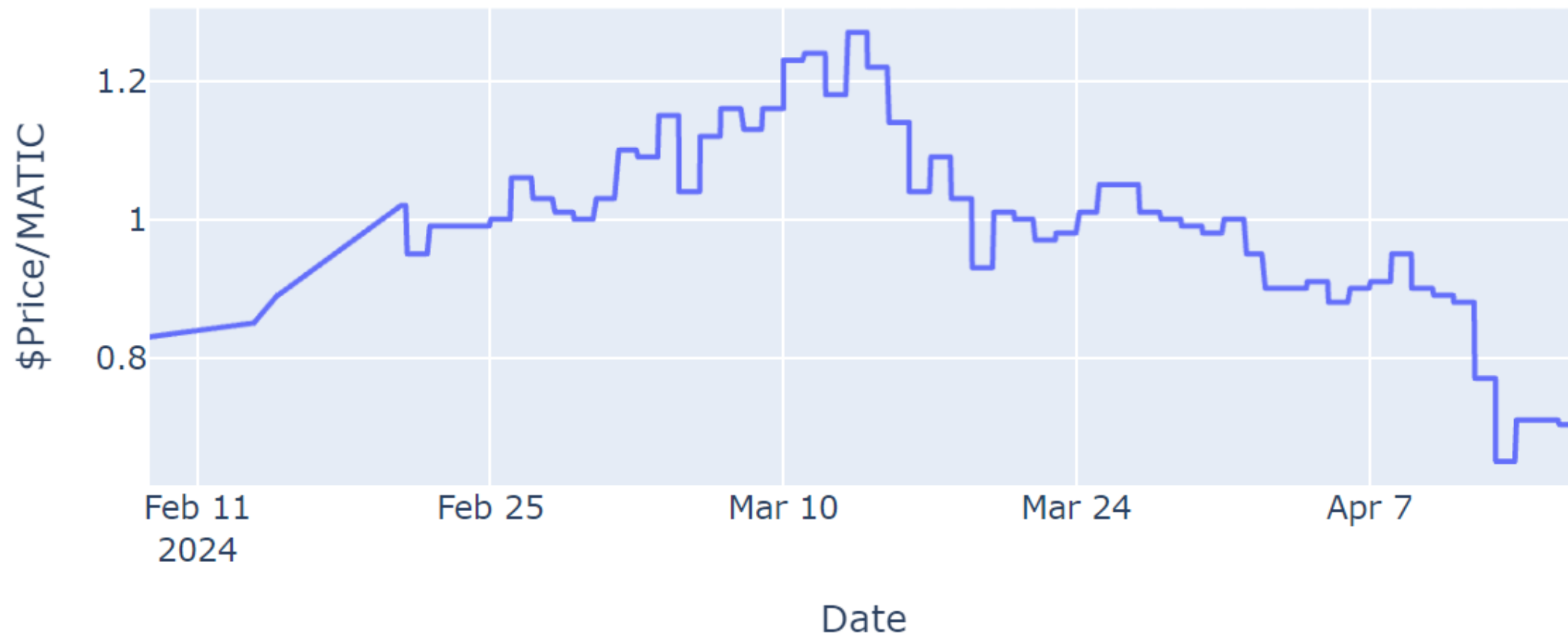
Filtered data history

Raw Data

Value_IN(MATIC) ▾	Value_OUT(MATIC) ▾	Current Value @ \$0.703172221747878/MATIC ▾	Txn Fee(MATIC) ▾	Txn Fee(USD) ▾	Historical \$Price/MATIC ▲ ▾
0.14	0	0.1	0.02	0.01	
677.99	0	476.74	0.02	0.02	
0	0	0	0.01	0	
0	0	0	0.01	0	
0	0	0	0.02	0.01	
0	0	0	0.02	0.01	
0.14	0	0.1	0.01	0.01	
0	0	0	0	0	
0.96	0	0.68	0.34	0.24	
0	0	0	0.03	0.02	
0	0	0	0.51	0.36	
0	0	0	0.03	0.02	
0	0	0	0.64	0.45	
0	0	0	0.04	0.03	
0.94	0	0.66	0.02	0.02	
0	0	0	0.04	0.03	
26	0	18.28	0.33	0.23	
0	0	0	0.57	0.4	
0	0	0	0.04	0.03	
0	0	0	0.03	0.02	
0	0	0	0.31	0.22	
0	0	0	0.02	0.01	
0	0	0	0.26	0.18	
0	0	0	0.27	0.19	
0	0	0	0.06	0.04	
0	0	0	0.7	0.49	
0	0	0	0.01	0.01	
1.48	0	1.04	0.02	0.01	

Blockno	0
UnixTimestamp	0
DateTime (UTC)	0
Value_IN(MATIC)	0
Value_OUT(MATIC)	0
CurrentValue @ \$0.703172221747878/MATIC	0
TxnFee(MATIC)	0
TxnFee(USD)	0
Historical \$Price/MATIC	72
dtype: int64	

Line plot of Historical \$Price/MATIC



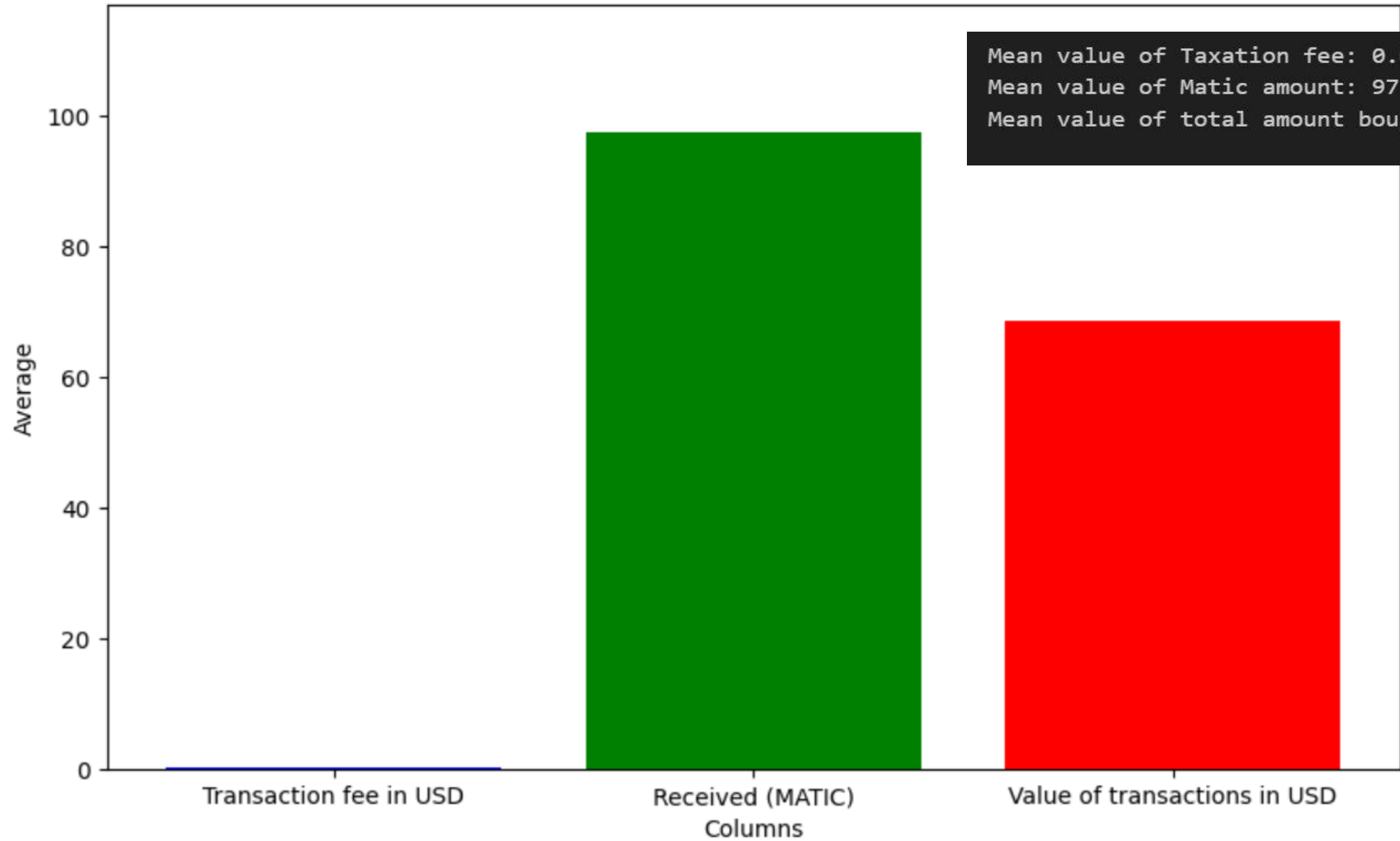
Statistiska summeringar



Statistics of MATIC from 2024-02-08 to 2024-04-16

Mean Price in February: 1.00 \$/MATIC Standard Deviation: 0.03 \$/MATIC Average MATIC bought: 32.97
Mean Price in March: 1.08 \$/MATIC Standard Deviation: 0.08 \$/MATIC Average MATIC bought: 74.32
Mean Price in April: 0.88 \$/MATIC Standard Deviation: 0.07 \$/MATIC Average MATIC bought: 194.24

Averages for Different Columns



Mean value of Taxation fee: 0.07\$
Mean value of Matic amount: 97.60
Mean value of total amount bought: 68.63\$

Kruskal Wallis Test

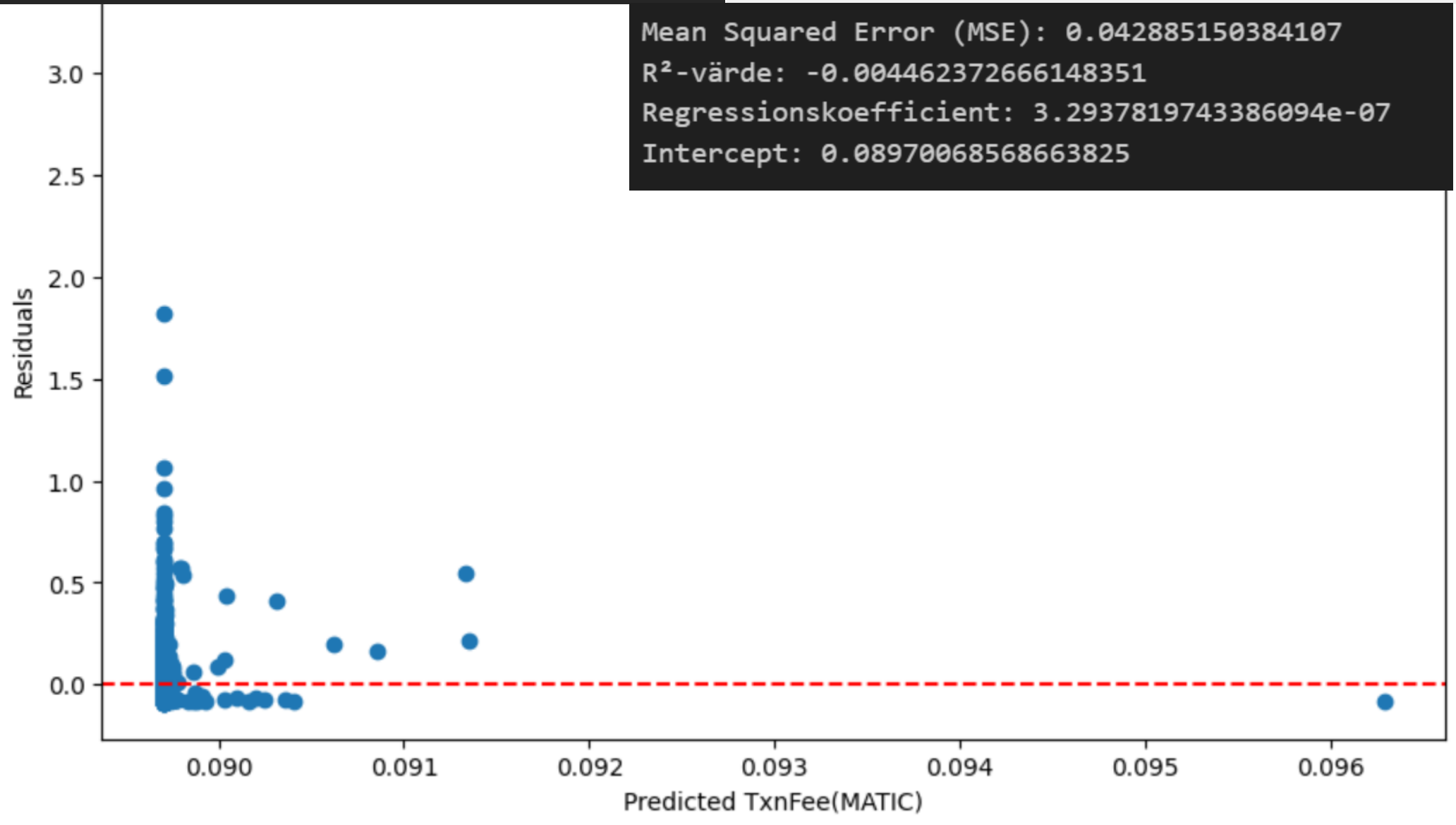
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Kruskal-Wallis Test Statistic: 934.8117765882337
```

```
P-value: 6.744812031263725e-08
```

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The result is significant. The medians are different.
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Regression analysis

- **Data Setup:** We loaded the dataset and identified TxnFee(MATIC) as the dependent variable and Value_IN(MATIC) as the independent variable.
- **Splitting the Data:** The dataset was split into training (80%) and testing (20%) sets to train and evaluate the model.
- **Model Building:** A simple linear regression model was built using the training data to predict transaction fees (TxnFee(MATIC)) based on the transaction value (Value_IN(MATIC)).
- **Model Evaluation:** The model was evaluated using Mean Squared Error (MSE) and R-squared (R^2) metrics, with the results showing whether the transaction value (Value_IN(MATIC)) can predict transaction fees accurately.
- **Conclusion:** The evaluation results (e.g., low R^2 value) suggest that Value_IN(MATIC) might not be a strong predictor of TxnFee(MATIC), indicating the need to explore other variables or modeling approaches to better understand the factors influencing transaction fees.



Linneear Regression