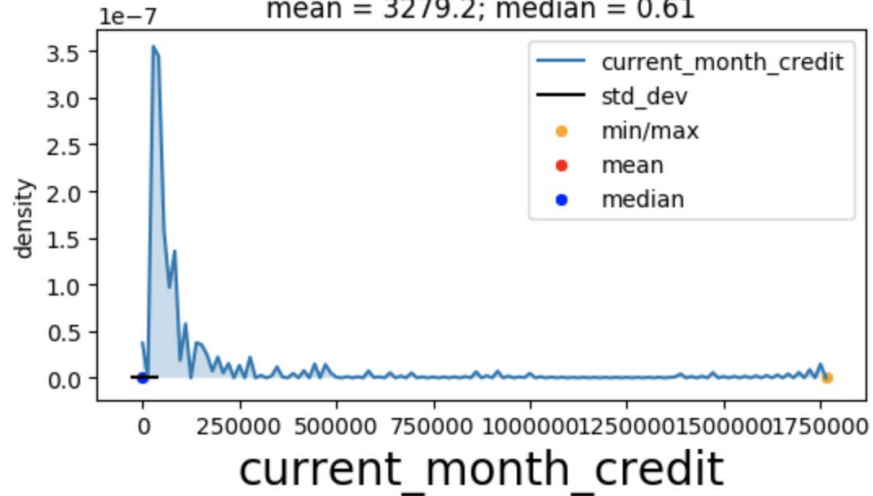


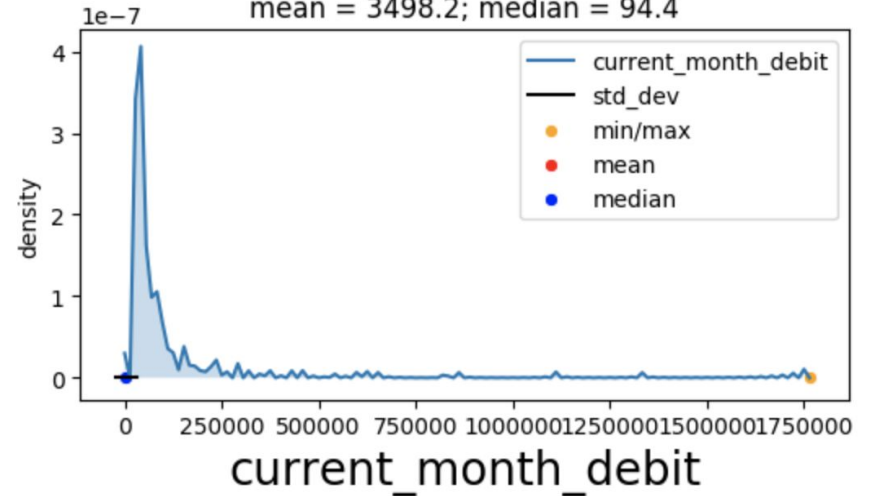
# Outliers

# Outliers

std\_dev = (-27968.06, 34526.47); kurtosis = 1394.62;  
skew = 32.55; range = (0.01, 1764285.97, 1764285.96)  
mean = 3279.2; median = 0.61



std\_dev = (-24759.08, 31755.47); kurtosis = 1587.98;  
skew = 33.93; range = (0.01, 1764285.97, 1764285.96)  
mean = 3498.2; median = 94.4



# Outliers

*Extreme (large or small) values relative to other observations*

# Reasons for Outliers Values

# Reasons for Outliers Values

- Human Error

# Reasons for Outliers Values

- Human Error



12000\$ → 122000\$

# Reasons for Outliers Values

- Human Error
- Measurement Error

# Reasons for Outliers Values

- Human Error
- Measurement Error
- Experimental Error



# Reasons for Outliers Values

- Human Error
- Measurement Error
- Experimental Error



# Reasons for Outliers Values

- Human Error
- Measurement Error
- Experimental Error
- Intentional Outlier

# Reasons for Outliers Values

- Human Error
- Measurement Error
- Experimental Error
- Intentional Outlier



# Reasons for Outliers Values

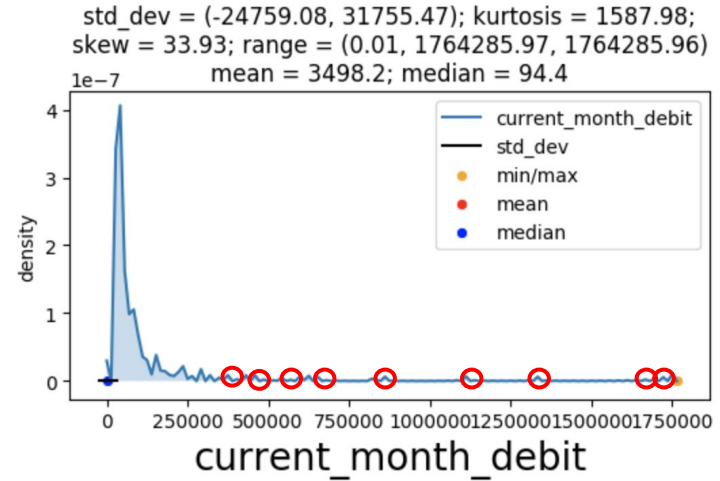
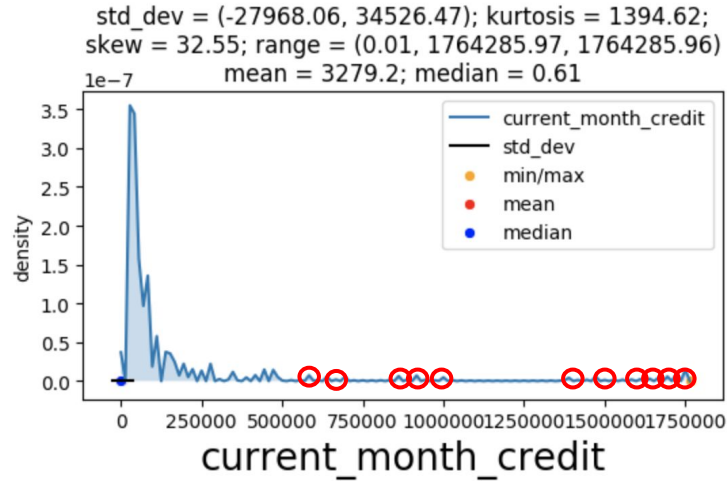
- Human Error
- Measurement Error
- Experimental Error
- Intentional Outlier
- Sampling Error

# Reasons for Outliers Values

- Human Error
- Measurement Error
- Experimental Error
- Intentional Outlier
- Sampling Error
- Actual Outliers



# Outliers



Thank You!