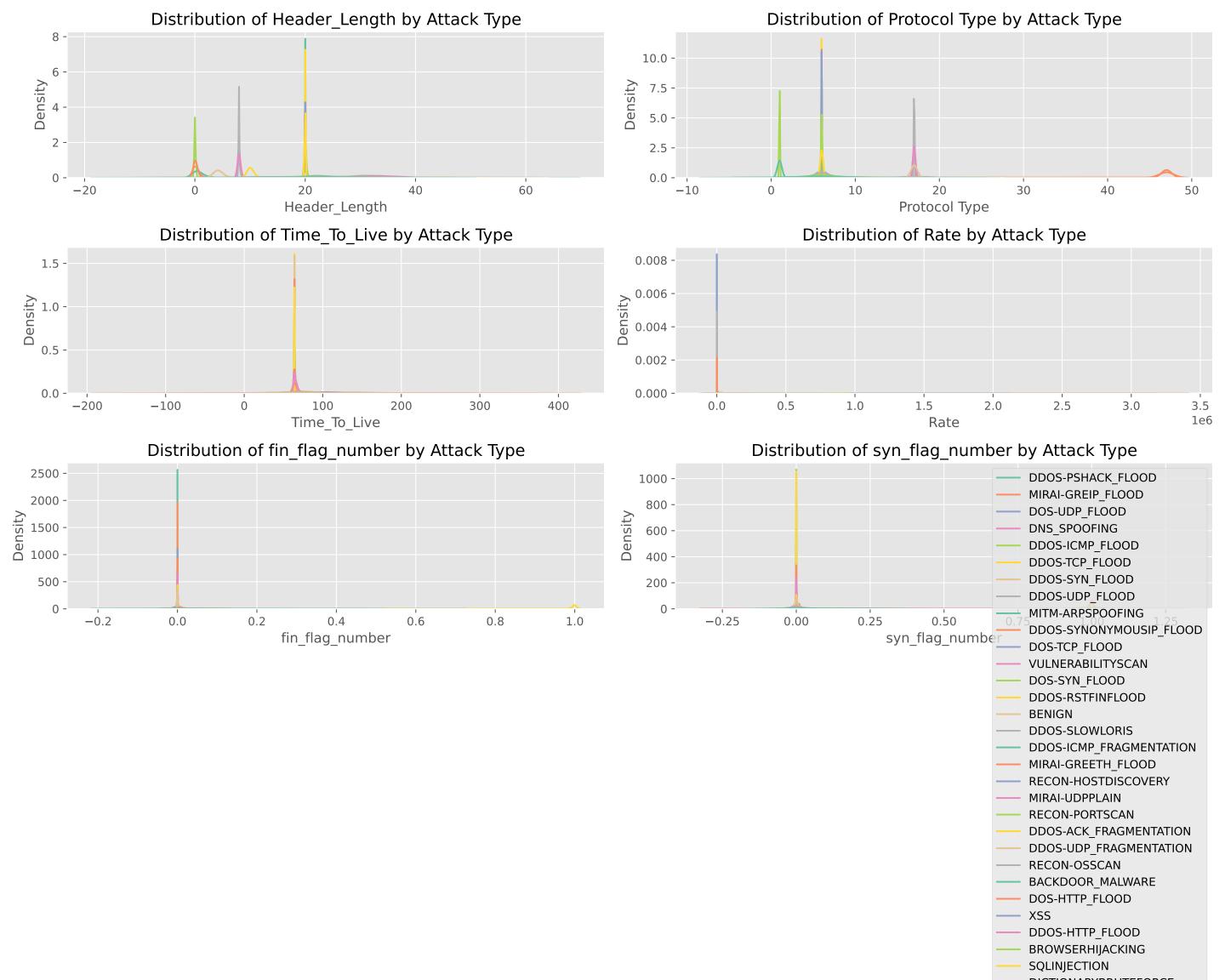


The bar chart shows the distribution of different attack types in the CIC-IoT dataset sample. This visualization helps us understand the class balance in the dataset, which is crucial for training effective machine learning models. Imbalanced classes might require special handling like stratified sampling, class weighting, or oversampling techniques. The chart identifies the most common attack types in the dataset, providing insights into the threat landscape faced by SMEs deploying IoT devices.



different attack types. The observed benign traffic and different can serve as important ind between attack and benign. These visualizations help in in	on shows the distribution of six density plots reveal how feature t attack categories. Distinct pat licators for attack detection. Fea traffic are likely to be more valu dentifying the network characte by different types of loT attacks	e distributions vary between terns in these distributions atures with minimal overlap uable for classification tasks. eristics that are most affected

Correlation Matrix of Key Network Features Header_Length -Protocol Type -Time_To_Live -Rate fin_flag_number syn_flag_number rst_flag_number psh_flag_number ack_flag_number ece_flag_number cwr_flag_number ack_count syn_count fin_count rst_count syn_count fin_count ack_count -Rate Header_Length fin_flag_number rst_count Protocol Type Time_To_Live syn_flag_number rst_flag_number psh_flag_number ack_flag_number cwr_flag_number ece_flag_number

- 0.8

- 0.6

- 0.4

- 0.2

- 0.0

- -0.2

