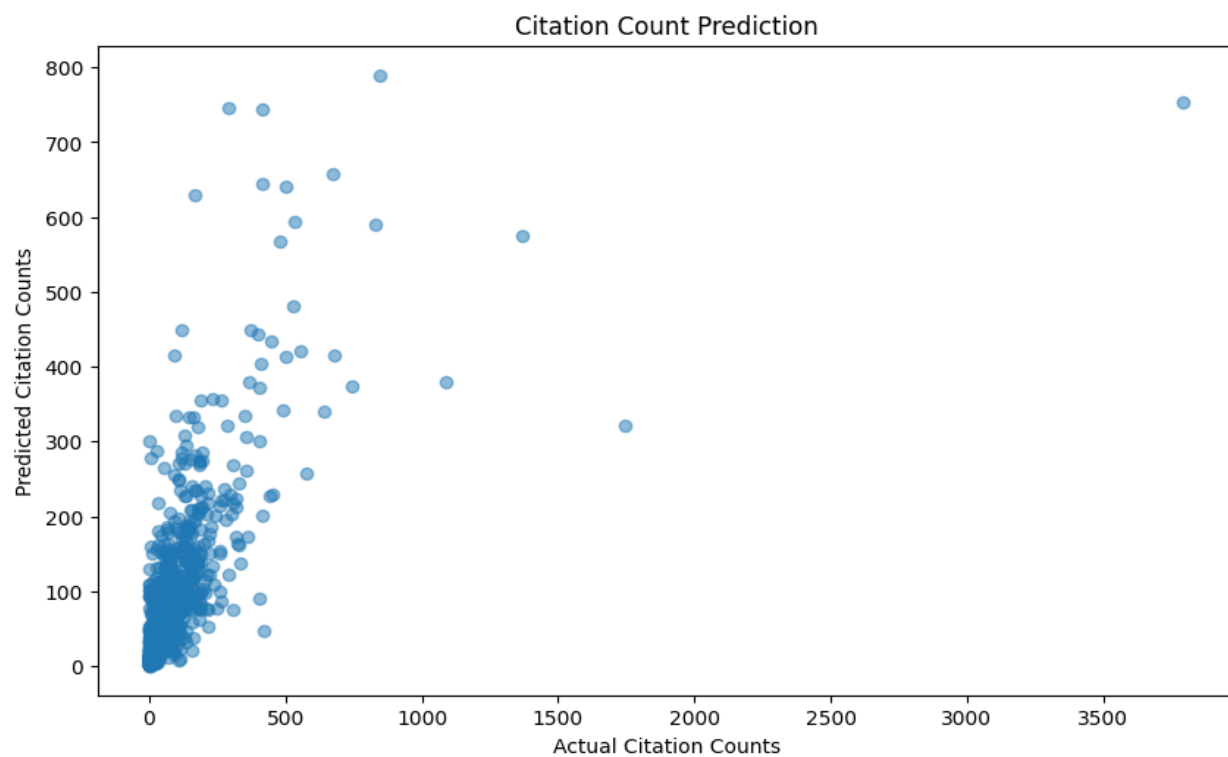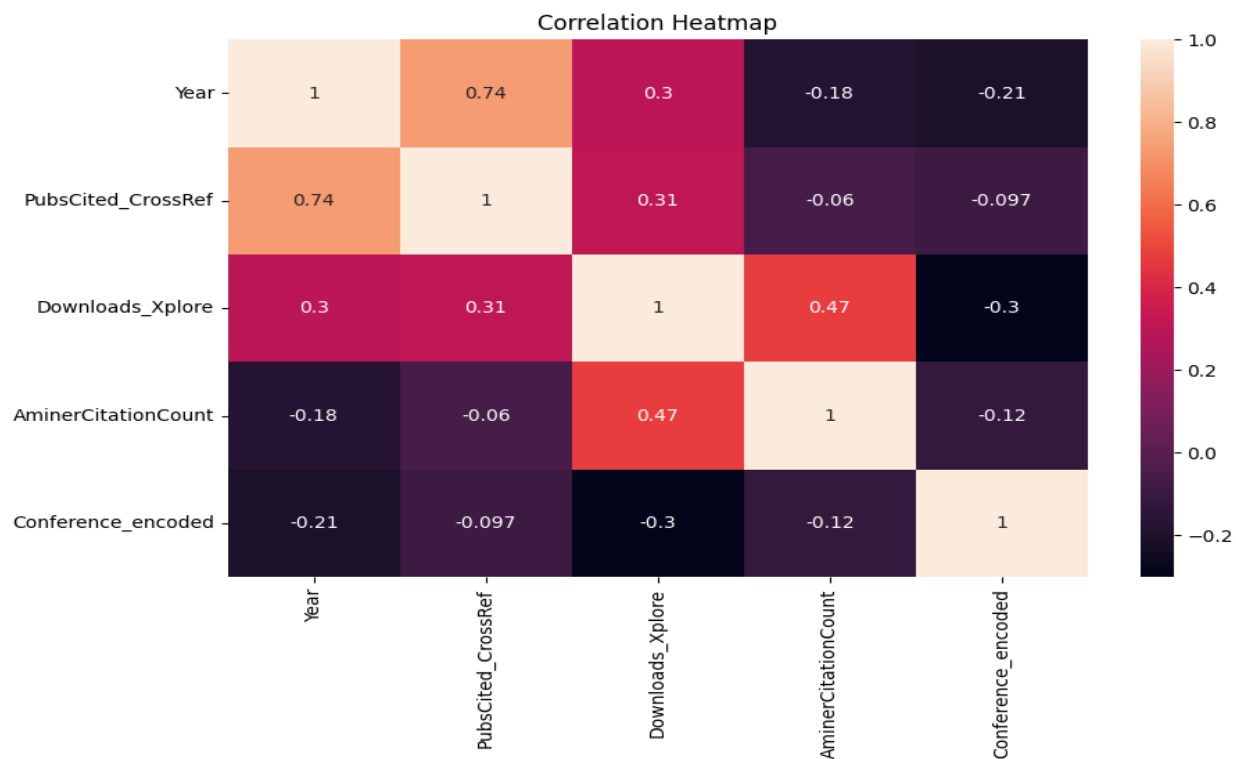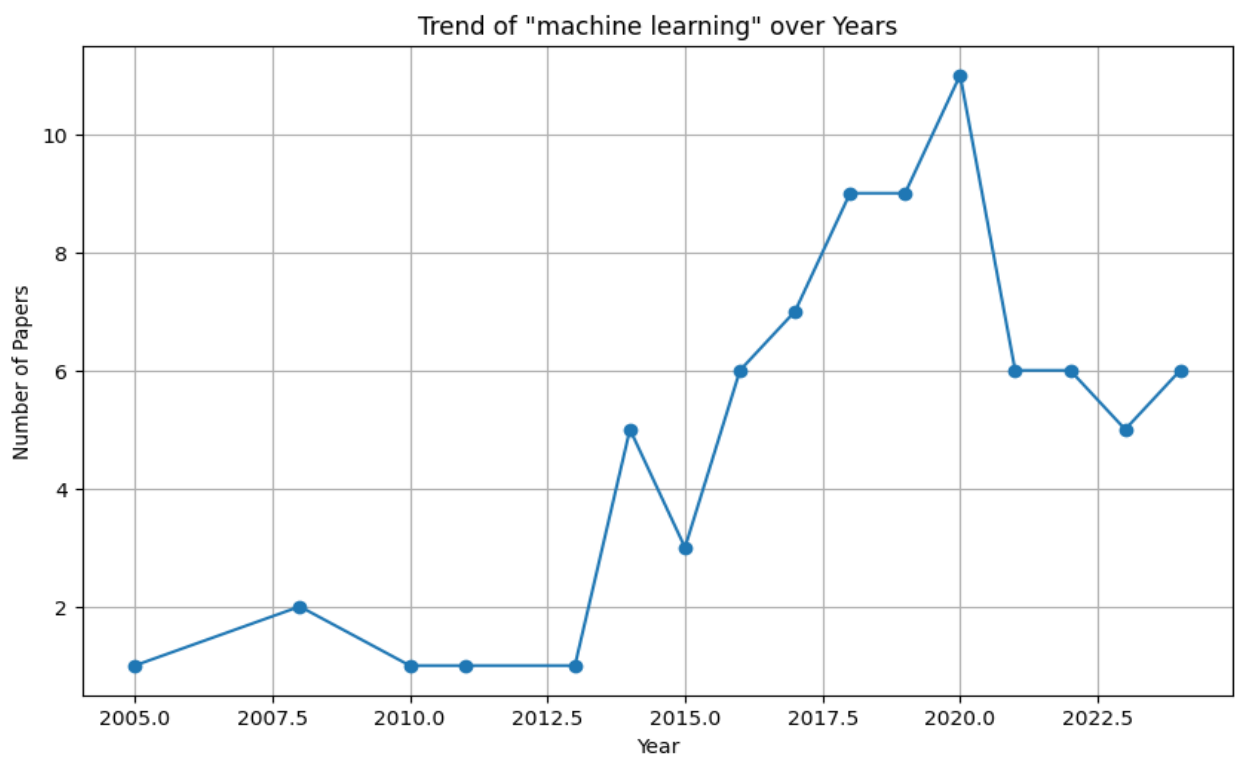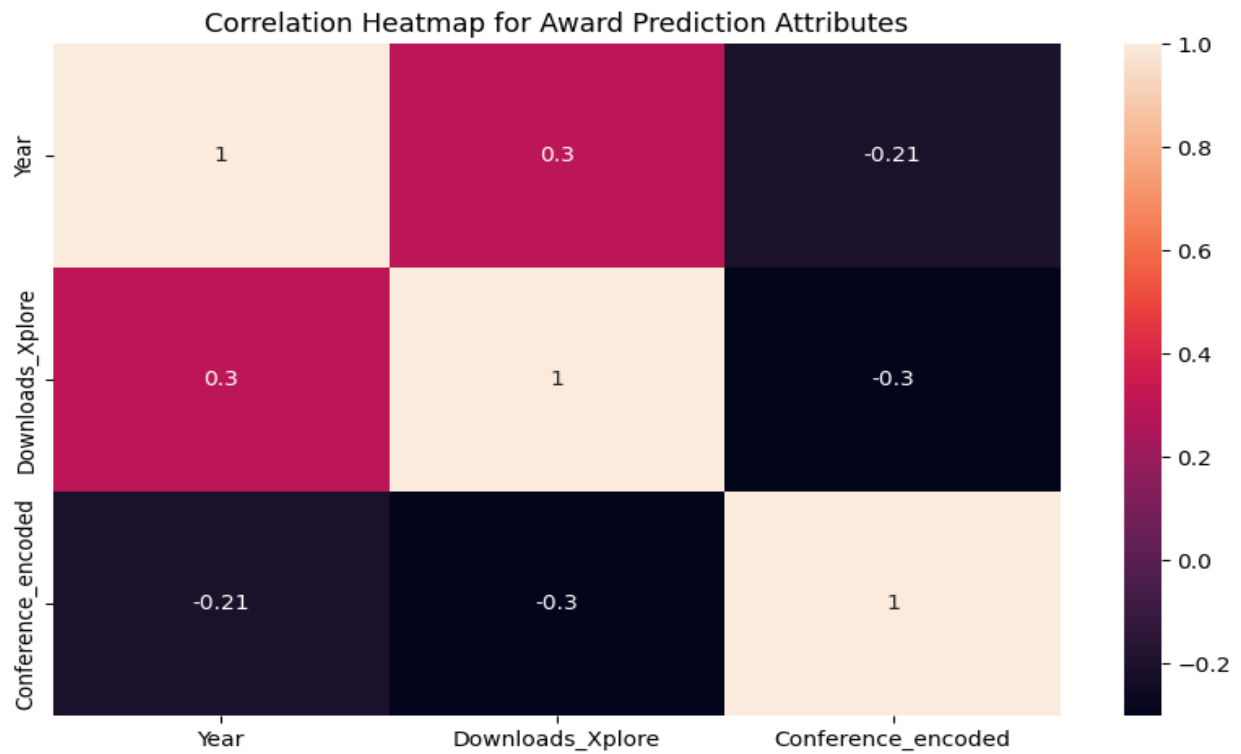The error "could not convert string to float: 'InfoVis'" occurs when attempting to convert categorical string data directly to a numerical format for processing, often seen in regression or other algorithmic operations. This can happen, for example, if we attempt a calculation on a column that's categorical without proper encoding. To handle this error, we need to ensure that categorical data are encoded into numerical format before feeding them into models. We typically use techniques like one-hot encoding or label encoding for such transformations. Let's proceed with the following code revision, addressing encoding for categorical data for the appropriate sections:

Distribution of Paper Types

Correlation Heatmap

Citation Count Prediction

Correlation Heatmap for Award Prediction Attributes

Trend of "machine learning" over Years
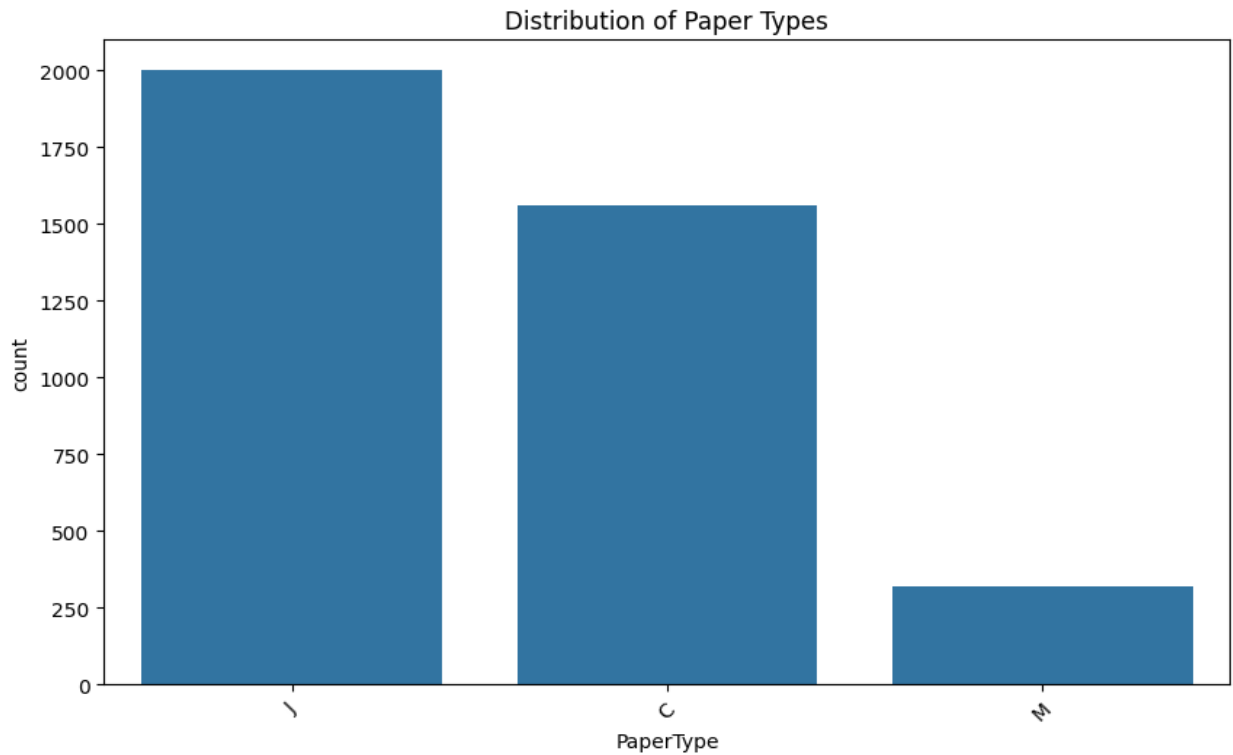
Key Adjustments: - **Encoding Categorical Variables:** Added encoding for categorical variables (`Conference`) to prevent errors when using them in numerical models. - **General corrections:**

Maintain checks and robust code to handle instances where data might not be present, particularly in the recommendation function. With these changes, the code will correctly handle categorical data, allowing it to run without the "could not convert string to float" error.