50 150 200 Movie Popularity (TMDB data) In [19]: fig,ax=plt.subplots( nrows=2, figsize=(16,8)) ax[0].get\_yaxis().set\_major\_formatter(ticker.FuncFormatter(lambda x, p: format(int(x), ','))) pd.set\_option('display.float\_format', lambda x: '%.7f' % x) sns.barplot(x='vote\_average', y='revenue', data=full\_profit\_avgvote\_df, ax=ax[0], palette="ch:r=2.75,l=.7");

Movie Rating and Profit Corellation

sns.barplot(x='vote average', y='ROI', data=full profit avgvote df, ax=ax[1], palette="ch:r=2.75,l=.7");

ax[0].set\_title("Movie Rating and Profit Corellation", fontsize=18 )

ax[0].set\_xlabel("-", fontsize=14);

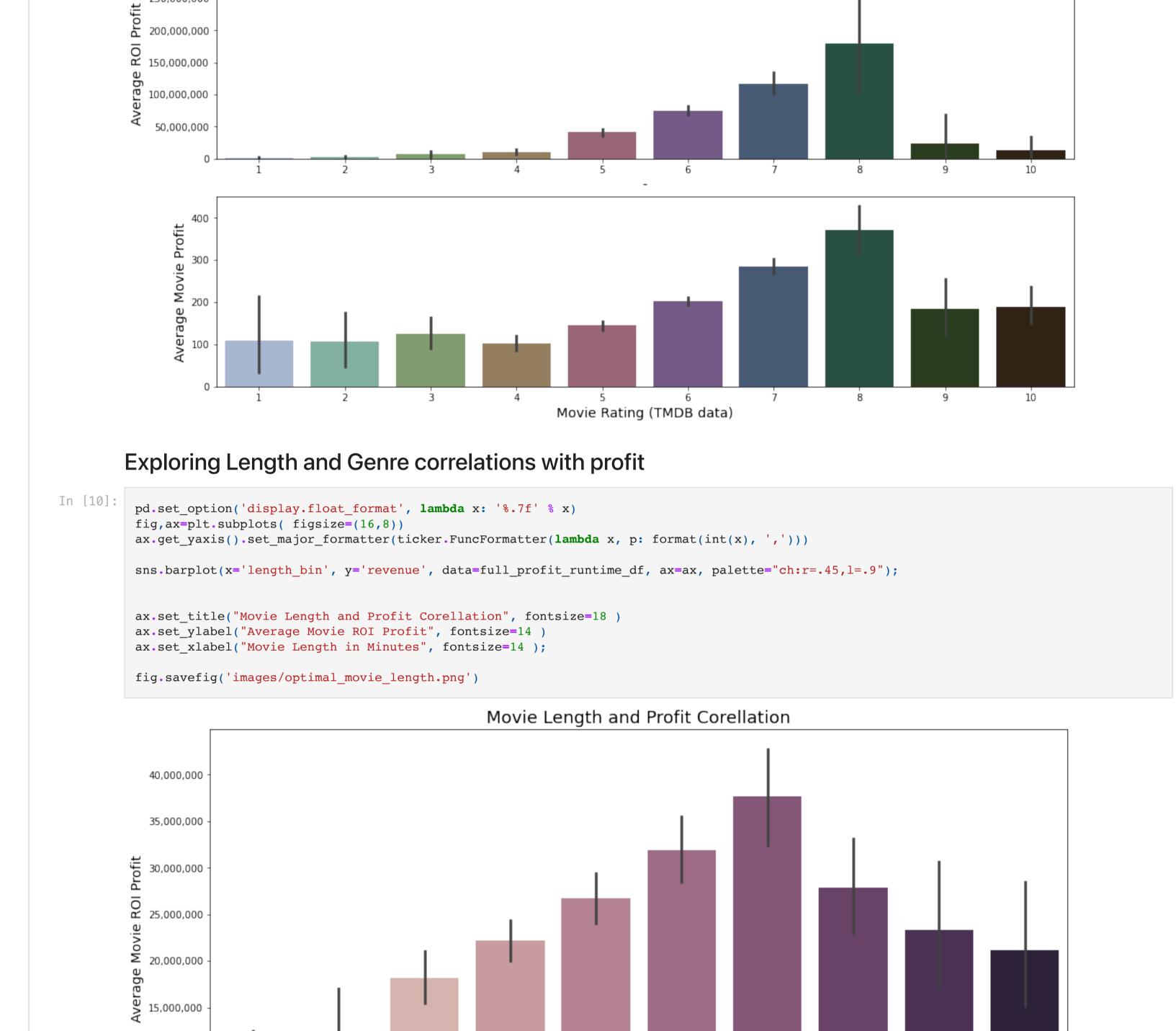
250,000,000

ax[0].set\_ylabel("Average ROI Profit", fontsize=14 )

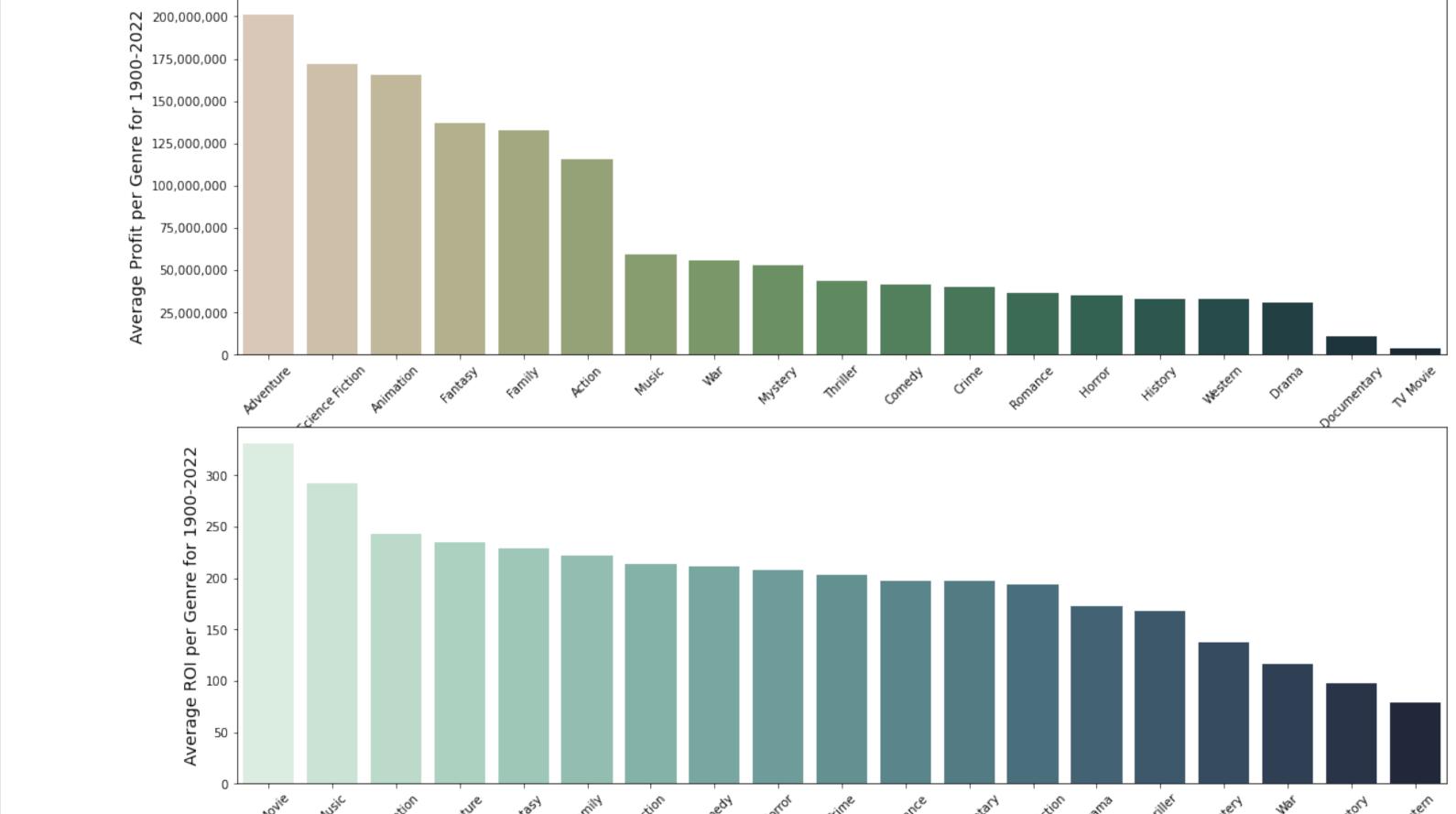
ax[1].set\_ylabel("Average Movie Profit", fontsize=14 )

fig.savefig('images/avg rating correlations.png')

ax[1].set xlabel("Movie Rating (TMDB data)", fontsize=14 );







## **Evaluation** Our results are based on data sourced from the global movie industry over a span of 30 years and because of this the results are valid in real world applications. Our models are very beneficial to a company fresh into the movie industry as guiding principles to ensure profitability in an unfamiliar business.

Most profitbale

**Terms** 

In [ ]:

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Promotion of any kind will contribute to success

■ Rating: Perfect ratings (9-10) are too niche to be extremely profitabled

Security

Status

Docs

Genre : Adventure / Science Fiction

■ Length: Slightly more than 2 hours long

Privacy

**Conclusions** • The Movie industry has proven to be consistently profitable, with stable growth over the past 30 years All publicity is good publicity, popularity correlates strongly with profitbaility

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