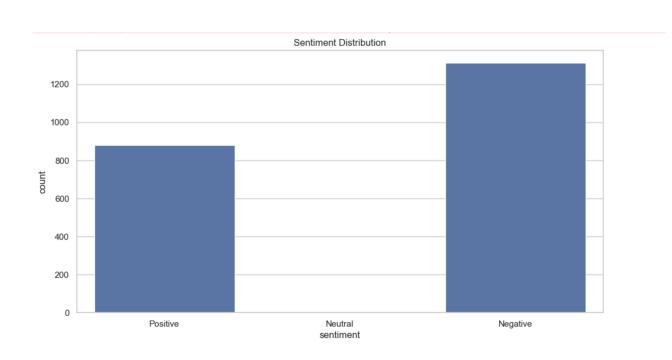
visualization – Project Visual Summary

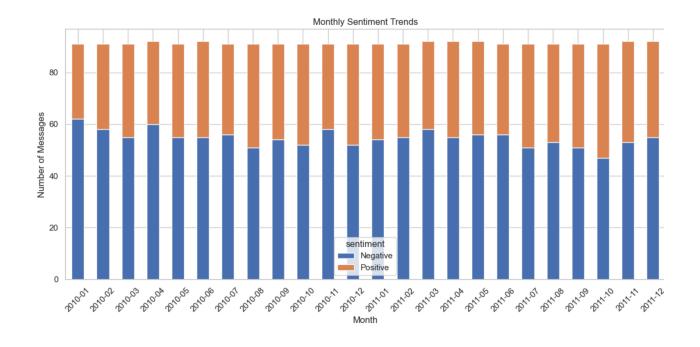
This folder contains all charts and graphs generated throughout the six core tasks of the **Employee Sentiment Analysis** project.

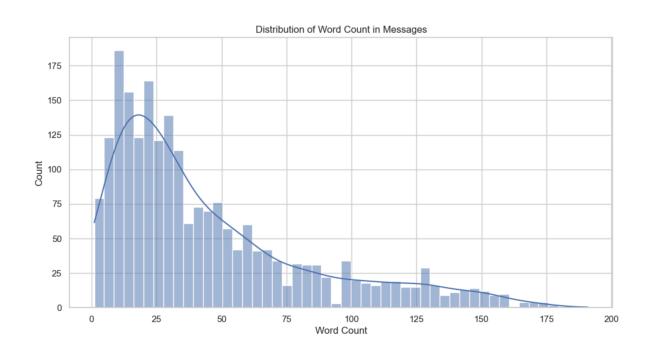
♦ Task 1: Sentiment Labeling

[18]:		from	date	sentiment
	0	sally.beck@enron.com	2010-05-10	Negative
	1	eric.bass@enron.com	2010-07-29	Negative
	2	sally.beck@enron.com	2011-07-25	Negative
	3	johnny.palmer@enron.com	2010-03-25	Negative
	4	lydia.delgado@enron.com	2011-05-21	Positive

♦ Task 2: Exploratory Data Analysis (EDA)







♦ Task 3: Monthly Sentiment Scoring

[22]:		employee	month	monthly_score
	0	bobette.riner@ipgdirect.com	2010-01	-2
	1	bobette.riner@ipgdirect.com	2010-02	-4
	2	bobette.riner@ipgdirect.com	2010-03	-3
	3	bobette.riner@ipgdirect.com	2010-04	-2
	4	bobette.riner@ipgdirect.com	2010-05	2

♦ Task 4: Employee Ranking

[24]:		employee	month	monthly_score	rank_type
	24	don.baughman@enron.com	2010-01	-5	Top Negative
	144	lydia.delgado@enron.com	2010-01	-5	Top Negative
	120	kayne.coulter@enron.com	2010-01	-6	Top Negative
	72	john.arnold@enron.com	2010-01	-1	Top Positive
	192	rhonda.denton@enron.com	2010-01	-1	Top Positive
	0	bobette.riner@ipgdirect.com	2010-01	-2	Top Positive
	1	bobette.riner@ipgdirect.com	2010-02	-4	Top Negative
	73	john.arnold@enron.com	2010-02	-8	Top Negative
	121	kayne.coulter@enron.com	2010-02	-8	Top Negative
	145	lydia.delgado@enron.com	2010-02	1	Top Positive

♦ Task 5: Flight Risk Detection

employee flight_risk

O lydia.delgado@enron.com True

1 sally.beck@enron.com True

2 johnny.palmer@enron.com True

3 don.baughman@enron.com True

4 eric.bass@enron.com True

♦ Task 6: Predictive Modeling

regression_model_performance.png

Model Performance:

R² Score: 0.5484671927215263

MAE: 1.4888852658812815

Feature Importance:

	Feature	Coefficient
0	msg_count	-0.198727
1	avg_word_count	0.005465
2	<pre>avg_sentiment</pre>	2.715936
3	pos_pct	1.357968
4	neg_pct	-1.357968