A decorative network diagram consisting of blue circular nodes connected by thin black lines. The nodes are arranged in a non-linear fashion, with some having concentric circles. Ellipses (...) are used to indicate that the network continues beyond the visible nodes.

# Week 6: Evals, HPC3 & AWS

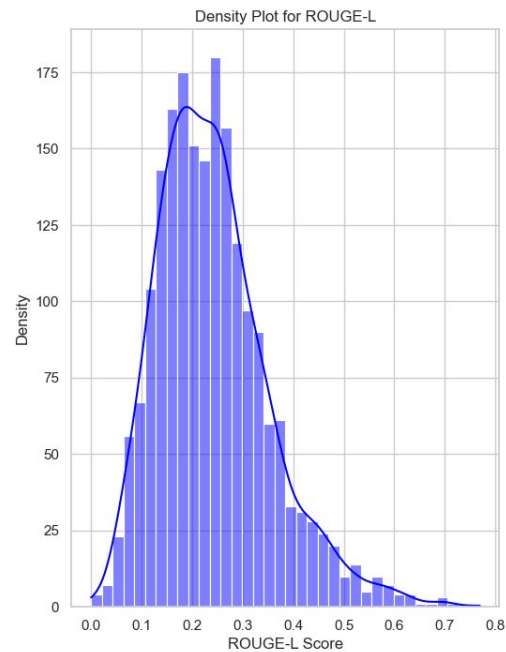
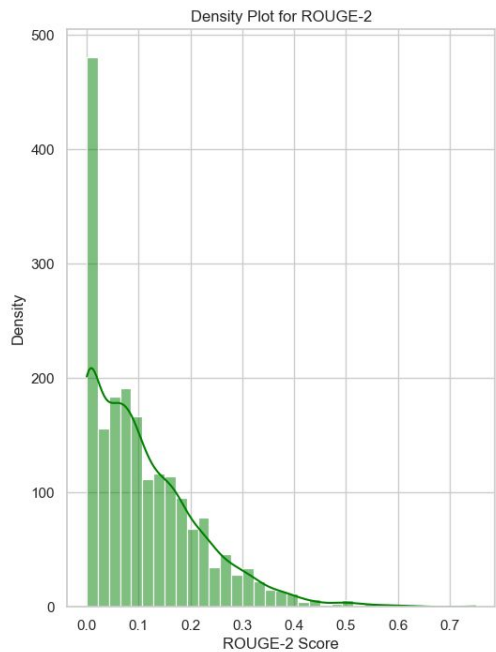
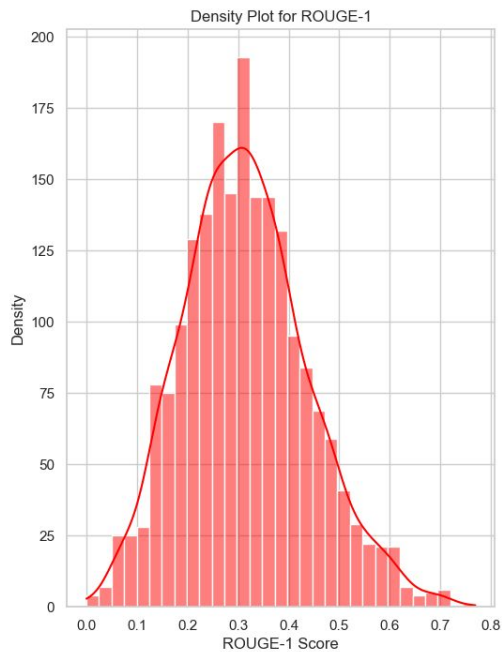
Alfonso Vieyra, Denise Wei,  
Raha Ghazi, Tom Gao

# Evaluations

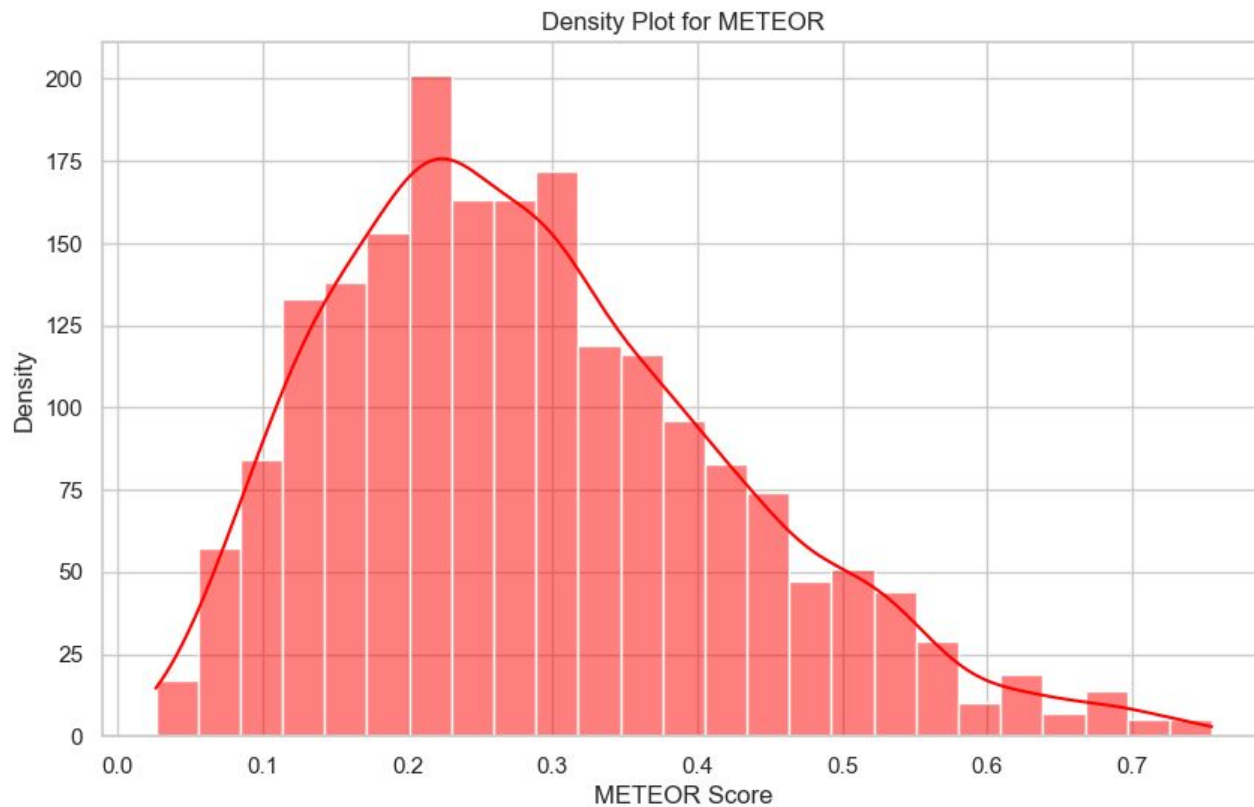
- Began preliminary evaluation of models
  - Started with **bart-large-cnn** for summarization
- Poor scoring
- Used pipeline wrapper to load model
  - Maybe loading model directly and tweaking the prompting will yield better results?
- Took a little over 3 hours to generate summary for 2000 rows

...

# BART ROUGE Scores



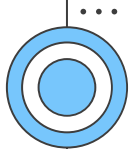
# BART METEOR Scores



# HPC3

- Set up environment has been temporarily resolved (Trying to resolve issue with PyTorch).
- Encountering issues with resource allocation (i.e. A100 and CPU cores for running LLM's)

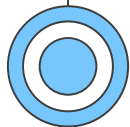
...



# AWS Relational Database Service

- Leveraging the cloud to store ALL the data (Training, Validation, Test).
- Data is now remotely accessible from any device
- Changes to data can be enacted immediately for all users (i.e. no need to push, pull data files via github!)

...



# Example: Structure

Dialogues					Models	
dialogue_id	dialogue_text	actual_summ...	actual_senti...	data_set	model_id	model_name
1	"#Person1#: Hi, Mr. Smith. I'm Doctor H...	"Mr. Smith's getting a ch...	"positive"	"training"	1	Mystral

Summaries					
summary_id	dialogue_id	model_id	generated_sum...	rouge_score	meteor_score
1	1	1	"Mr. Smith's getting a check- up..."	0.9	0.95

Sentiments				Sentiment_evaluation		
sentiment_id	dialogue_id	model_id	generated_senti...	evaluation_id	model_id	roc_score
1	1	1	"positive"	1	1	0.85