



Coinmarketcap sentiment Analysis using BERT

Mastering NLP: Foundations to Frontiers with LLMs

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Who are the users or stakeholders?

- Investors
- Traders
- Market Hunters
- Any involved in Financial / Crypto Market

How can NLP helps doing this task?

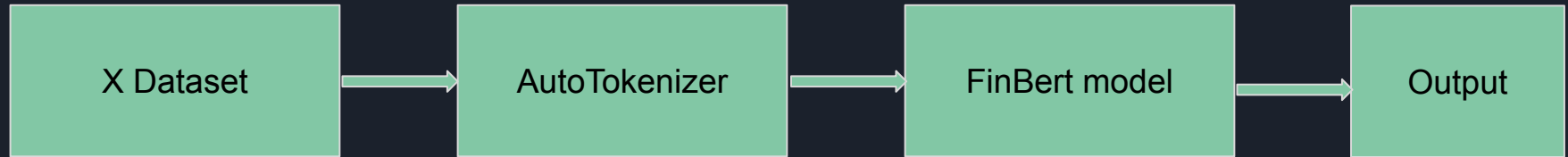
- Providing hints about feeling in Crypto market can be useful for take decisions and take advantage of some scenarios.



Data Strategy

- Primary data source: HuggingFace dataset ``juanka0357/bitcoin-sentiment-analysis``
- Data acquisition plan: Loading pre-labeled dataset with feelings about Crypto currencies in social media.

Processing Pipeline





Modelling Choices & Justification

- Hyperparameters:
- Learning rate: $2e-6$
- Batch size: 32 (train and eval)
- Epochs: 10
- Weight decay: 0.1
- Max sequence length: 128

Evaluation Plan

- Metrics: `balanced_accuracy`, `accuracy`
- Validation technique: Train/Val/Test split (60%/20%/20%)



DEMO