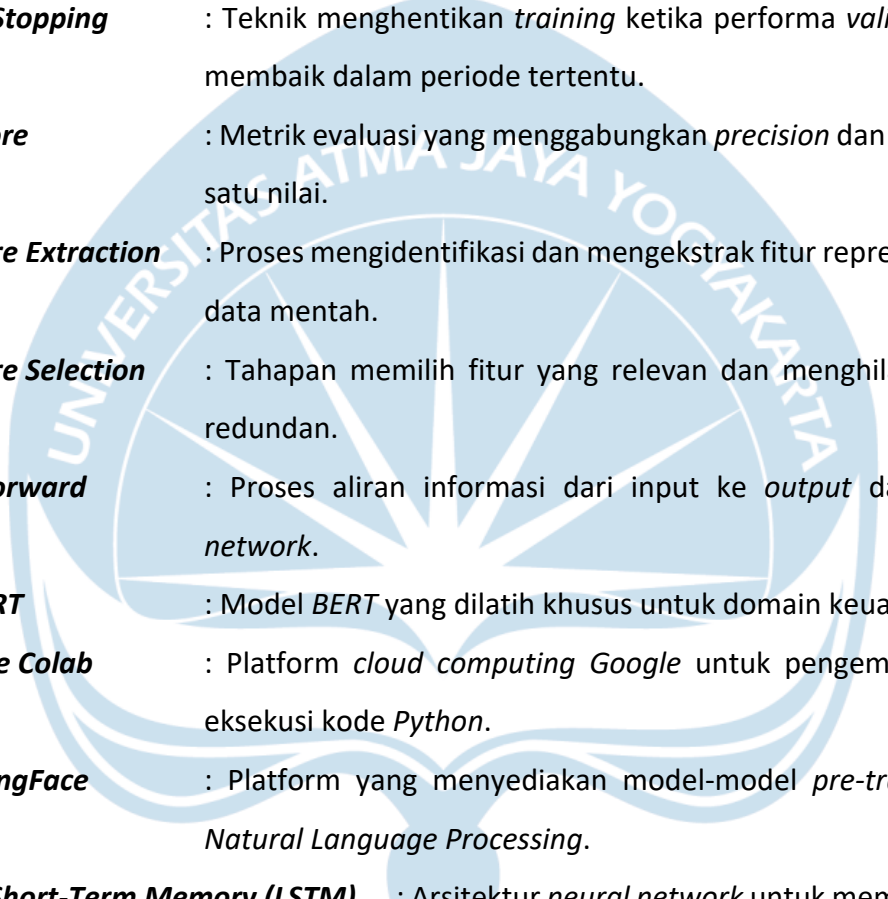


GLOSARIUM

Accuracy	: Metrik evaluasi yang mengukur persentase prediksi model yang benar dari total prediksi.
Adam Optimizer	: Algoritma optimisasi adaptif yang menggabungkan momentum dan rata-rata bergerak gradien untuk pembelajaran model.
Altcoin	: Semua <i>cryptocurrency</i> selain <i>Bitcoin</i> , singkatan dari " <i>alternative coin</i> ".
Altseason	: Periode ketika harga <i>Altcoin</i> mengalami kenaikan signifikan, ditandai menurunnya dominasi <i>Bitcoin</i> .
Analisis Sentimen	: Proses menganalisis teks untuk mengidentifikasi opini, emosi, atau sikap terhadap suatu topik.
Application Programming Interface (API)	: Antarmuka yang memungkinkan komunikasi antar sistem software.
Artificial Intelligence (AI)	: Teknologi yang memungkinkan mesin melakukan tugas yang membutuhkan kecerdasan manusia.
Backpropagation	: Algoritma untuk menghitung gradien <i>error</i> dan memperbarui bobot dalam <i>neural network</i> .
BERTweet	: Model <i>BERT</i> yang dioptimalkan khusus untuk memproses teks dari platform X.
Bidirectional Encoder Representations from Transformers (BERT)	: Model bahasa <i>pre-trained</i> yang memahami konteks teks secara dua arah.
Bitcoin	: <i>Cryptocurrency</i> pertama yang diciptakan Satoshi Nakamoto pada 2008 menggunakan teknologi <i>blockchain</i> .
Bitcoin Halving	: Mekanisme protokol <i>Bitcoin</i> yang mengurangi separuh <i>reward mining</i> setiap 4 tahun.
Blockchain	: Teknologi <i>distributed ledger</i> yang menyimpan data dalam blok-blok yang terhubung secara kriptografis.
BTC.D	: Indeks <i>TradingView</i> yang mengukur persentase dominasi <i>Bitcoin</i> terhadap total pasar <i>crypto</i> .
CryptoBERT	: Model <i>BERT</i> yang dikembangkan khusus untuk analisis sentimen <i>cryptocurrency</i> .



Cryptocurrency	: Mata uang digital yang menggunakan kriptografi dan beroperasi pada teknologi <i>blockchain</i> .
Data Leakage	: Kesalahan ketika informasi masa depan secara tidak sengaja digunakan dalam <i>training model</i> .
Dropout	: Teknik regularisasi yang secara acak "mematikan" <i>neuron</i> untuk mencegah <i>overfitting</i> .
Early Stopping	: Teknik menghentikan <i>training</i> ketika performa <i>validation</i> tidak membaik dalam periode tertentu.
F1-Score	: Metrik evaluasi yang menggabungkan <i>precision</i> dan <i>recall</i> dalam satu nilai.
Feature Extraction	: Proses mengidentifikasi dan mengekstrak fitur representatif dari data mentah.
Feature Selection	: Tahapan memilih fitur yang relevan dan menghilangkan fitur redundan.
Feedforward	: Proses aliran informasi dari input ke <i>output</i> dalam <i>neural network</i> .
FinBERT	: Model <i>BERT</i> yang dilatih khusus untuk domain keuangan.
Google Colab	: Platform <i>cloud computing</i> Google untuk pengembangan dan eksekusi kode <i>Python</i> .
HuggingFace	: Platform yang menyediakan model-model <i>pre-trained</i> untuk <i>Natural Language Processing</i> .
Long Short-Term Memory (LSTM)	: Arsitektur <i>neural network</i> untuk memproses data sekuensial dengan kemampuan mengingat jangka panjang.
Market Cycle	: Pola berulang dalam pasar keuangan yang menunjukkan fase-fase tertentu secara siklis.
Market Rally	: Periode kenaikan harga yang signifikan dan berkelanjutan dalam pasar keuangan.
Masked Language Model (MLM)	: Tugas pelatihan <i>BERT</i> dengan menutup sebagian token dan memprediksi token tersebut.
Mean Absolute Percentage Error (MAPE)	: Metrik yang mengukur rata-rata kesalahan prediksi dalam bentuk persentase.

Mean Squared Error (MSE) : Fungsi *loss* yang menghitung rata-rata kuadrat selisih prediksi dan nilai aktual.

MinMaxScaler : Teknik normalisasi yang mentransformasi data ke rentang 0-1.

Natural Language Processing (NLP) : Bidang AI yang memungkinkan komputer memahami dan memproses bahasa manusia.

Next Sentence Prediction (NSP) : Tugas pelatihan *BERT* untuk memprediksi hubungan antar kalimat.

Normalization : Proses penyesuaian skala data agar berada dalam rentang yang sama.

OHLCV : *Open, High, Low, Close, Volume* - data teknikal fundamental dalam analisis keuangan.

Overfitting : Kondisi ketika model terlalu menghafal data *training* sehingga buruk pada data baru.

Post-halving : Periode setelah terjadinya *Bitcoin halving* dengan perubahan dinamika pasar *crypto*.

Pretrained Language Models (PLM) : Model bahasa yang telah dilatih pada korpus besar untuk tugas-tugas spesifik.

Precision : Metrik yang mengukur proporsi prediksi positif yang benar dari total prediksi positif.

R-squared (R^2) : Metrik yang mengukur kemampuan model menjelaskan variasi data, berkisar 0-1.

Representativeness Bias : Bias kognitif dimana pelaku pasar menganggap membuat penilaian berdasarkan kesamaan beberapa komponen.

Root Mean Squared Error (RMSE) : Metrik yang mengukur akar kuadrat rata-rata kuadrat *error*.

Self-supervised Learning : Paradigma pembelajaran dimana model belajar dari data tanpa label eksplisit.

Semi-supervised Learning : Pendekatan yang menggabungkan data berlabel dan tidak berlabel.

Sequential Data : Data yang memiliki urutan temporal dimana posisi setiap elemen penting untuk analisis.

Softmax Function : Fungsi aktivasi yang mengubah vektor menjadi distribusi probabilitas.

Stablecoin : *Cryptocurrency* yang dirancang mempertahankan nilai stabil dengan dipatok pada aset referensi.

Supervised Learning : Paradigma pembelajaran menggunakan data berlabel untuk prediksi data baru.

Text Preprocessing : Tahapan pembersihan dan standardisasi teks mentah untuk analisis.

Time-series Analysis : Metode analisis data yang mempertimbangkan urutan waktu untuk prediksi.

Tokenization : Proses memecah teks menjadi unit-unit kecil yang dapat diproses model.

TOTAL2ES : Indeks *TradingView* yang mengukur kapitalisasi pasar *crypto* kecuali *Bitcoin* dan *Stablecoin*.

TradingView : Platform web untuk analisis teknikal dan *charting* pasar keuangan.

Tweet Harvest : *Tools* ekstraksi data khusus untuk mengumpulkan data dari platform *Twitter/X*.

Unsupervised Learning : Paradigma pembelajaran yang mencari pola dalam data tanpa label.

Volatilitas : Tingkat fluktuasi harga suatu aset yang mengindikasikan risiko investasi.

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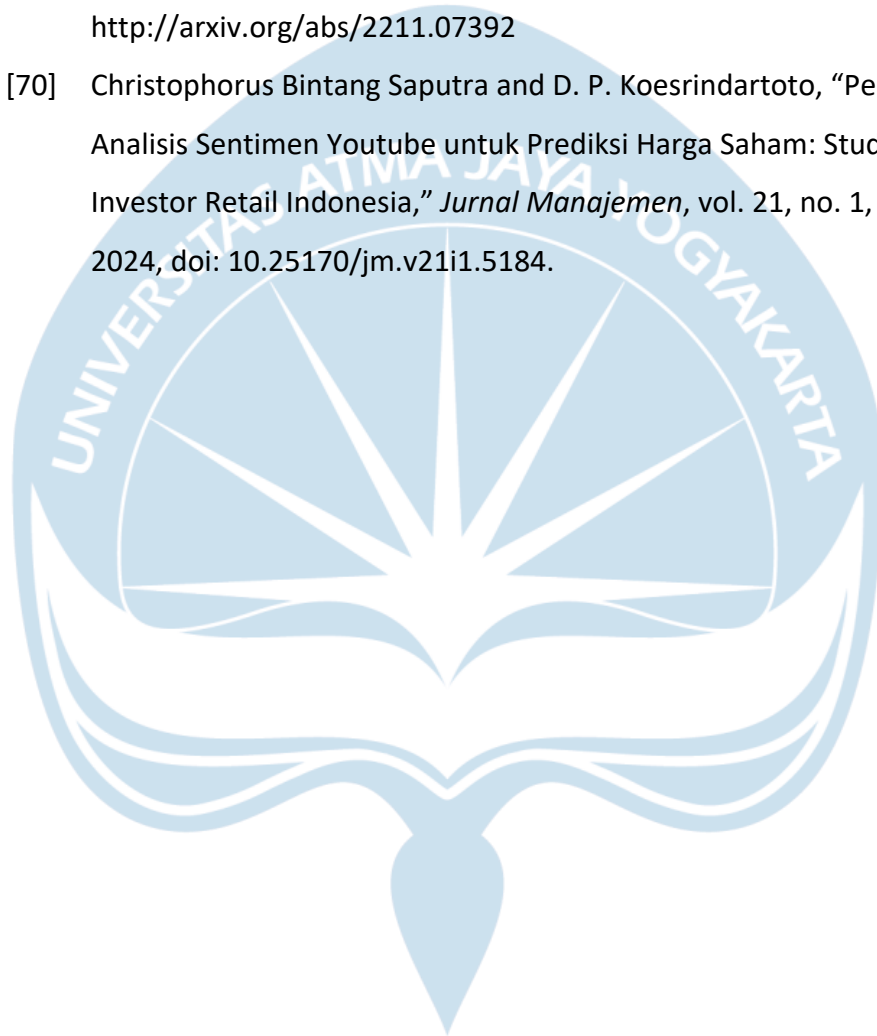
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TABEL REVISI

No	Revisi	Halaman
1.	Mengganti judul menjadi "Analisis Sentimen dan Data Market untuk Memprediksi Pergerakan <i>TOTAL2ES</i> Menggunakan <i>CryptoBERT</i> "	1
2.	Membuat glosarium	82-85
3.	Menulis verifikasi manual data pada dokumen	31, 41
4.	Mencoba ulang pemrosesan data dengan mencoba <i>python library</i> otomatis untuk <i>cleaning data</i>	40
5.	Memperbaiki bagian <i>Word Cloud</i>	21, 42
6.	Menambahkan pembahasan mengenai temuan market negatif dan opini positif	73-74
7.	Memberikan saran yang relevan dengan temuan	80
8.	Memperbaiki <i>typo</i>	2, 11, 21, 26, 28, 38
9.	Memberikan penjelasan cara mengatasi akun <i>bot</i> , <i>Tweet</i> sarkasme, dan verifikasi 1 akun 1 sentimen	27, 42
10.	Membuat tabel perbaikan berdasarkan komentar penguji	94

Lampiran

Tweet hasil pengumpulan data yang sesuai dengan kriteria penelitian:

