

REPUBLIC INDONESIA
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00202360188, 28 Juli 2023

Pencipta

Nama : **Pranowo Setiyaji, Dwi Retnoningsih, S.T., M.T. dkk**
Alamat : **Dungbendo, RT 02 RW 04, Ngancar, Giriwoyo, Wonogiri, Jawa Tengah 57675, Wonogiri, Jawa Tengah, 57675**
Kewarganegaraan : **Indonesia**

Pemegang Hak Cipta

Nama : **Universitas Sahid Surakarta**
Alamat : **Jl. Adisucipto No. 154 Jajar Laweyan Surakarta 57144, Surakarta (solo), JAWA TENGAH 57144**
Kewarganegaraan : **Indonesia**
Jenis Ciptaan : **Program Komputer**
Judul Ciptaan : **Program Aplikasi Sistem Artificial Intelligence (AI) Pencarian Berita Ekonomi Pasar Komoditas Cryptocurrency Dan Mata Uang Berbasis Webapp**
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia : **28 Juli 2023, di Surakarta (solo)**
Jangka waktu perlindungan : **Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.**
Nomor pencatatan : **000493128**

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.

a.n. MENTERI HUKUM DAN HAK ASASI MANUSIA
Direktur Hak Cipta dan Desain Industri



Anggoro Dasananto
NIP. 196412081991031002

Disclaimer:

Dalam hal pemohon memberikan keterangan tidak sesuai dengan surat pernyataan, Menteri berwenang untuk mencabut surat pencatatan permohonan.

LAMPIRAN PENCIPTA

No	Nama	Alamat
1	Pranowo Setiyaji	Dungbendo, RT 02 RW 04, Ngancar, Giriwoyo, Wonogiri, Jawa Tengah 57675
2	Dwi Retnoningsih, S.T., M.T.	Jatiswetan, RT 01 RW 01, Pedan, Klaten, Jawa Tengah 57468
3	Farid Fitriyadi, S.Kom, M.Kom	Sorogenen RT 3 RW 1 Kel. Jagalan, Kec.Jebres, Surakarta, Jawa Tengah, 57124



NASKAH HKI

SISTEM *ARTIFICIAL INTELLIGENCE* (AI) PENCARIAN BERITA EKONOMI PASAR KOMODITAS *CRYPTOCURRENCY* DAN MATA UANG BERBASIS WEBAPP



Penulis:

Pranowo Setiyaji	(NIM 2019061020)
Dwi Retnoningsih, S.T., M.T	(NIDN 0529057501)
Farid Fitriyadi S.Kom., M.Kom	(NIDN 0607058902)

**PROGRAM STUDI INFORMATIKA
FAKULTAS SAINS, TEKNOLOGI DAN KESEHATAN
UNIVERSITAS SAHID SURAKARTA
2023**

TAMPILAN SISTEM *ARTIFICIAL INTELLIGENCE* (AI) PENCARIAN BERITA EKONOMI PASAR KOMODITAS *CRYPTOCURRENCY* DAN MATA UANG BERBASIS WEBAPP

Home • Pasar • Berita • Kalender Ekonomi

Mencari

Berita Terkini

Dolar terus melemah; akhir pengetatan FOMC terlihat

Investing.com - Dolar AS merosot lebih rendah pada awal perdagangan Eropa pada hari Selasa, diperdagangkan mendekati level terendah lebih dari satu tahun karena para pedagang semakin mempertimbangkan penghentian segera...

Melihat - 59 menit yang lalu

Dolar terhuyung-huyung mendekati level terendah satu tahun; euro naik ke puncak 17 bulan

Oleh Rae Wee SINGAPURA (Reuters) - Dolar terhuyung-huyung mendekati level terendah lebih dari satu tahun terhadap mata uang utama lainnya pada hari Selasa, karena investor menunggu katalis baru untuk mengukur apakah greenback...

Melihat - 2 jam lalu

FX Asia diredam karena kesengsaraan China membebani, penjualan ritel AS menunggu

Investing.com - Sebagian besar mata uang Asia mempertahankan kisaran ketat pada hari Selasa karena kekhawatiran atas perlambatan pertumbuhan ekonomi di China terus membebani, dengan fokus beralih ke...

Melihat - 3 jam yang lalu

Kalender Ekonomi

Time	Cur.	Event	Actual	Forecast	Previous
Upcoming Key Economic Events					
3h 55m	🇨🇦 CAD	Housing Starts		220.0K	202.5K
4h 10m	🇨🇦 CAD	Core CPI (YoY)		3.5%	3.7%

Gambar 1. Halaman *Home*

Energy

Commodity :	Month :	Last	Prev.	High	Low	Chg. :	Chg. % :	Time :
🇺🇸 Brent Oil	Oct 23	83.50	82.56	84.08	82.20	+0.94	+1.14%	15:09:20
🇺🇸 Crude Oil WTI	Sep 23	79.83	78.78	80.61	78.88	+1.05	+1.33%	15:08:16
🇺🇸 Natural Gas	Sep 23	2.607	2.693	2.691	2.551	-0.086	-3.19%	15:09:29
🇺🇸 Heating Oil	Sep 23	2.9032	2.8367	2.9150	2.8342	+0.0665	+2.34%	15:09:29

Metals

Commodity :	Month :	Last	Prev.	High	Low	Chg. :	Chg. % :	Time :
🇺🇸 Gold	Aug 23	1,944.85	1,970.10	1,982.30	1,941.75	-25.25	-1.28%	15:09:24
🇺🇸 Silver	Sep 23	24.262	24.970	25.317	24.188	-0.708	-2.84%	15:09:15
🇺🇸 Copper	Sep 23	3.8478	3.9020	3.9435	3.8438	-0.0542	-1.39%	15:08:53
🇺🇸 Platinum	Oct 23	940.65	972.00	982.50	940.35	-31.35	-3.23%	15:09:23

Gambar 2. Tampilan Harga Setiap Komoditi



Gambar 3. Tampilan Model Grafik Area

Top Crypto

#	Name	Symbol	Price (USD)	Market Cap	Vol (24H)	Total Vol	Chg (24H)	Chg (7D)
1	Bitcoin	BTC	29,182.6	\$567.14B	\$13.10B	43.02%	-0.24%	-1.84%
2	Ethereum	ETH	1,862.2	\$224.88B	\$5.34B	17.54%	+0.32%	-1.33%
3	Tether	USDT	0.9999	\$83.81B	\$21.26B	69.82%	-0.04%	-0.01%
4	XRP	XRP	0.71693	\$37.86B	\$1.76B	5.78%	+2.80%	-9.08%
5	BNB	BNB	240.4	\$37.00B	\$484.41M	1.59%	+0.92%	-0.36%
6	USD Coin	USDC	1.0001	\$26.58B	\$2.80B	9.20%	0%	+0.01%
7	Dogecoin	DOGE	0.078044	\$10.95B	\$604.56M	1.99%	+0.61%	+11.10%
8	Cardano	ADA	0.3074	\$10.78B	\$191.61M	0.63%	+0.09%	-2.49%
9	Solana	SOL	25.017	\$10.10B	\$636.22M	2.09%	+1.49%	-1.94%
10	TRON	TRX	0.082495	\$7.39B	\$222.83M	0.73%	+1.58%	+2.51%
11	Polygon	MATIC	0.718	\$6.70B	\$264.06M	0.87%	+1.10%	-5.53%
12	Litecoin	LTC	90.39	\$6.65B	\$450.78M	1.48%	+1.06%	-1.87%
13	Polkadot	DOT	5.21	\$6.46B	\$105.21M	0.35%	-0.84%	-1.52%
14	Bitcoin Cash	BCH	242.9	\$4.73B	\$245.76M	0.81%	+0.66%	0%
15	Wrapped Bitcoin	WBTC	29,192.5	\$4.72B	\$119.60M	0.39%	-0.54%	-1.71%
16	Toncoin	TON	1.3378	\$4.61B	\$36.21M	0.12%	-1.95%	-2.36%
17	Shiba Inu	SHIB	0.00001	\$4.59B	\$71.37M	0.23%	-2.02%	+1.38%
18	Dai	DAI	0.9999	\$4.56B	\$78.49M	0.26%	+0.01%	0%

Gambar 4.. Tampilan Harga Setiap Kripto



Gambar 5. Tampilan Model Grafik *Candel*

Pair :	Last	Open	High	Low	Chg. :	Chg. % :	Time :
EUR/USD	1.0980	1.1079	1.1150	1.0980	-0.0103	-0.93%	14:31:17
GBP/USD	1.2817	1.2937	1.2996	1.2816	-0.0122	-0.94%	14:31:17
USD/JPY	139.56	140.21	141.32	139.22	-0.65	-0.46%	14:31:19
USD/CHF	0.8686	0.8607	0.8696	0.8552	+0.0080	+0.93%	14:31:14
AUD/USD	0.6711	0.6759	0.6822	0.6710	-0.0045	-0.67%	14:31:17
EUR/GBP	0.8567	0.8566	0.8601	0.8545	+0.0001	+0.01%	14:31:06
USD/CAD	1.3226	1.3204	1.3226	1.3158	+0.0019	+0.14%	14:31:17
NZD/USD	0.6182	0.6209	0.6273	0.6182	-0.0027	-0.43%	14:31:16
EUR/JPY	153.23	155.47	156.24	153.08	-2.24	-1.44%	14:31:17
GBP/JPY	178.86	181.49	181.93	178.65	-2.63	-1.45%	14:31:17

Gambar 6. Tampilan Harga Setiap Mata Uang

Kalender Ekonomi Search



Oil steadies as investors digest China gloom, eye US crude supplies
By Natalie Grover LONDON (Reuters) -Oil prices were little changed on Tuesday as investors weighed a possible tightening of U.S. crude supplies against weaker-than-expected...

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Japan and UAE agree innovation, climate change cooperation
By Rachna Uppal ABU DHABI (Reuters) -Japan and the United Arab Emirates agreed to cooperate on technology and climate change during Japan Prime Minister Fumio Kishida's visit, his...

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Don strengthens into Tropical Storm in central Atlantic Ocean
(Reuters) - Tropical Depression Don has strengthened into a Tropical Storm in the central Atlantic on Monday and is forecast to turn southward within the next day or so, the U.S....

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Russia halts grain deal in what UN calls blow to needy people everywhere
KYIV (Reuters) -Russia halted participation on Monday in the year-old U.N. mediated deal that lets Ukraine...

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Explainer-What to watch for in China-US climate talks this week
By Valerie Volcovici, Timothy Gardner and Kate Abnett BEIJING (Reuters) - As China and the United States...

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Oil prices rise on China stimulus hopes, U.S. inventories awaited
Investing.com - Oil prices rose on Tuesday, steadying from recent losses as markets hot that upcoming...

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Gambar 7. Tampilan Berita Komoditas



Philippines Blockchain Council exec sees crypto adoption 'snowballing'
The Philippines has all the ingredients for mainstream crypto and blockchain adoption, according to Donald Lim, the founder of the Blockchain Council of the Philippines (BCP). In...

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Threads copies Twitter again, introduces 'rate limits' to combat bots
Mark Zuckerberg's Twitter alternative, Instagram Threads, has been forced to implement rate limits in response to a growing number of reports citing spam attacks and...

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US regulatory clarity has begun in court after Ripple win: CFTC commissioner
Caroline Pham, one of five commissioners of the Commodities Futures Trading Commission, believes the path to United States crypto regulatory clarity has been laid out following...

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SEC's Gary Gensler believes AI can strengthen its enforcement regime
Gary Gensler, the chair of the United States Securities and Exchange Commission, believes AI at its core...

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Apple's headset could redefine what being in the metaverse means
The release of Apple's new mixed-reality headset, Vision Pro, could cause a seismic shift in how users will...

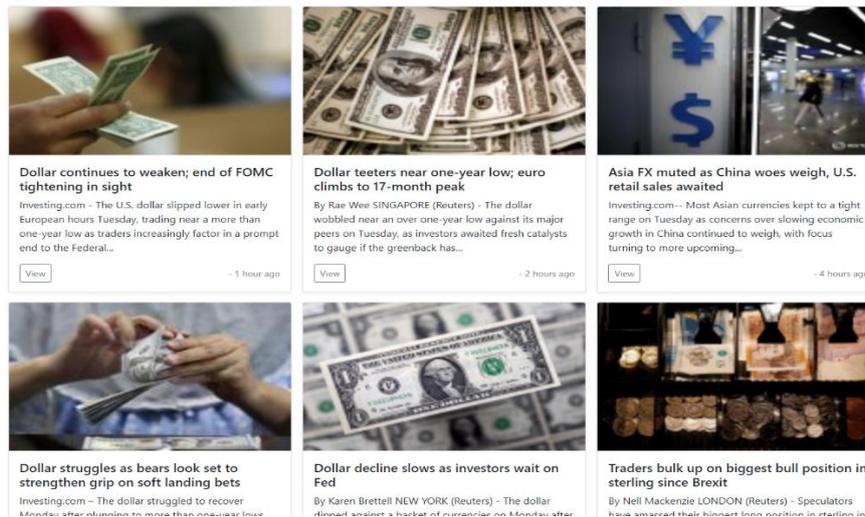
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Bitcoin price falls under \$30K as macro and regulatory worries take center stage
Multiple pieces of data point to the Bitcoin price falling below \$30,000 in the short term. For you to see...

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Gambar 8. Tampilan Berita Kripto



Gambar 9. Tampilan Berita Mata Uang

```

77
78 public class BruteForce{
79     public static int bruteForce(String text, String toBeMatched){
80         int length = text.length();
81         int tbmLength = toBeMatched.length();
82
83         for (int i = 0; i < length - tbmLength; i++){
84             int j = 0;
85             while ((j < tbmLength) && (text.charAt(i + j) = toBeMatched.charAt(j))){
86                 j++;
87             }
88             if (j = tbmLength){
89                 return i;
90             }
91         }
92
93         return -1;
94     }
95 }
96

```

Gambar 10. Kode Program Algoritma *Brute Force*

Pada sistem AI ini menerapkan Algoritma *Brute Force*. Gambar 10 merupakan implementasi algoritma *Brute Force*. Algoritma tersebut digunakan untuk melakukan pencarian berdasarkan kata kunci yang diinputkan user. Selanjutnya akan dilakukan proses pencocokan antara kata kunci dengan data yang ada pada sistem. Jika kata kunci yang dimasukkan sesuai dengan data yang ada maka hasil pencarian akan ditampilkan, namun jika tidak cocok maka tidak akan menampilkan apapun.