

```
In [6]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Show charts inline
%matplotlib inline
```

```
In [9]: # Load data
df = pd.read_csv("../data/coin_gecko_2022-03-16.csv")
df.head()
```

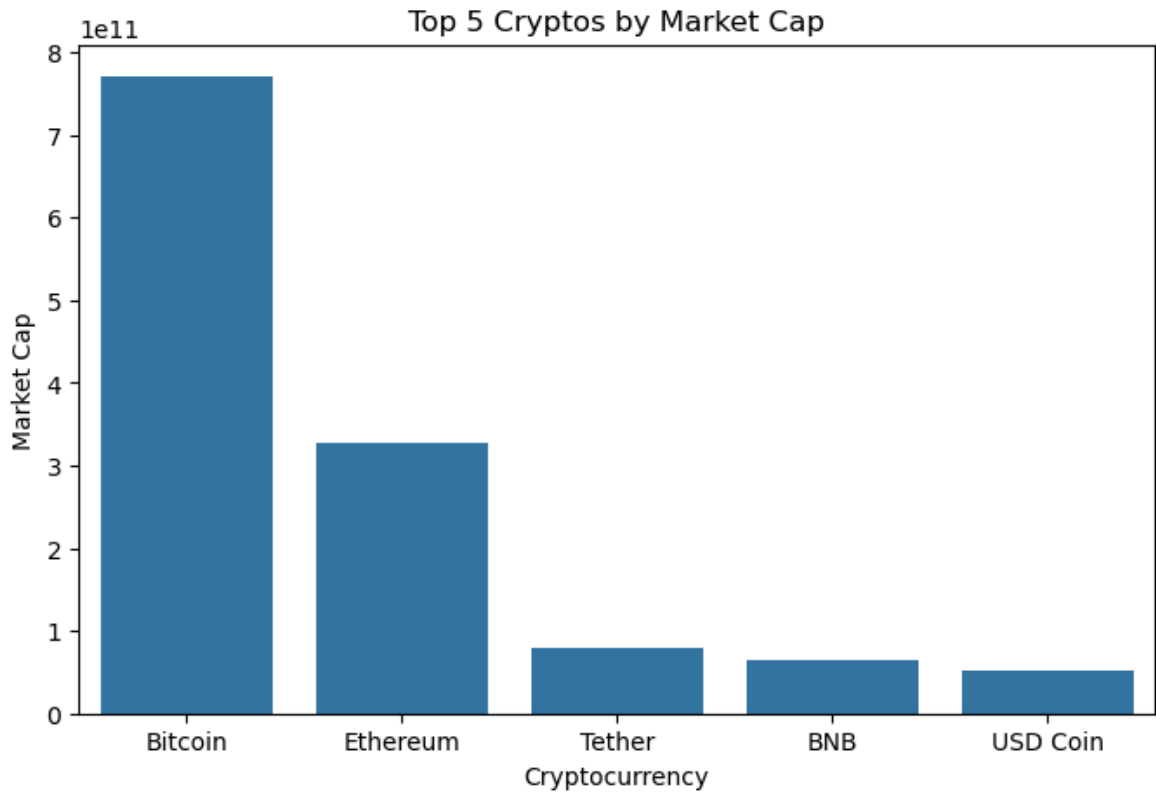
```
Out[9]:
```

	coin	symbol	price	1h	24h	7d	24h_volume	mkt_cap
0	Bitcoin	BTC	40859.460000	0.022	0.030	0.055	3.539076e+10	7.709915e+11
1	Ethereum	ETH	2744.410000	0.024	0.034	0.065	1.974870e+10	3.271044e+11
2	Tether	USDT	1.000000	-0.001	-0.001	0.000	5.793497e+10	7.996516e+10
3	BNB	BNB	383.430000	0.018	0.028	0.004	1.395854e+09	6.404382e+10
4	USD Coin	USDC	0.999874	-0.001	0.000	-0.000	3.872274e+09	5.222214e+10

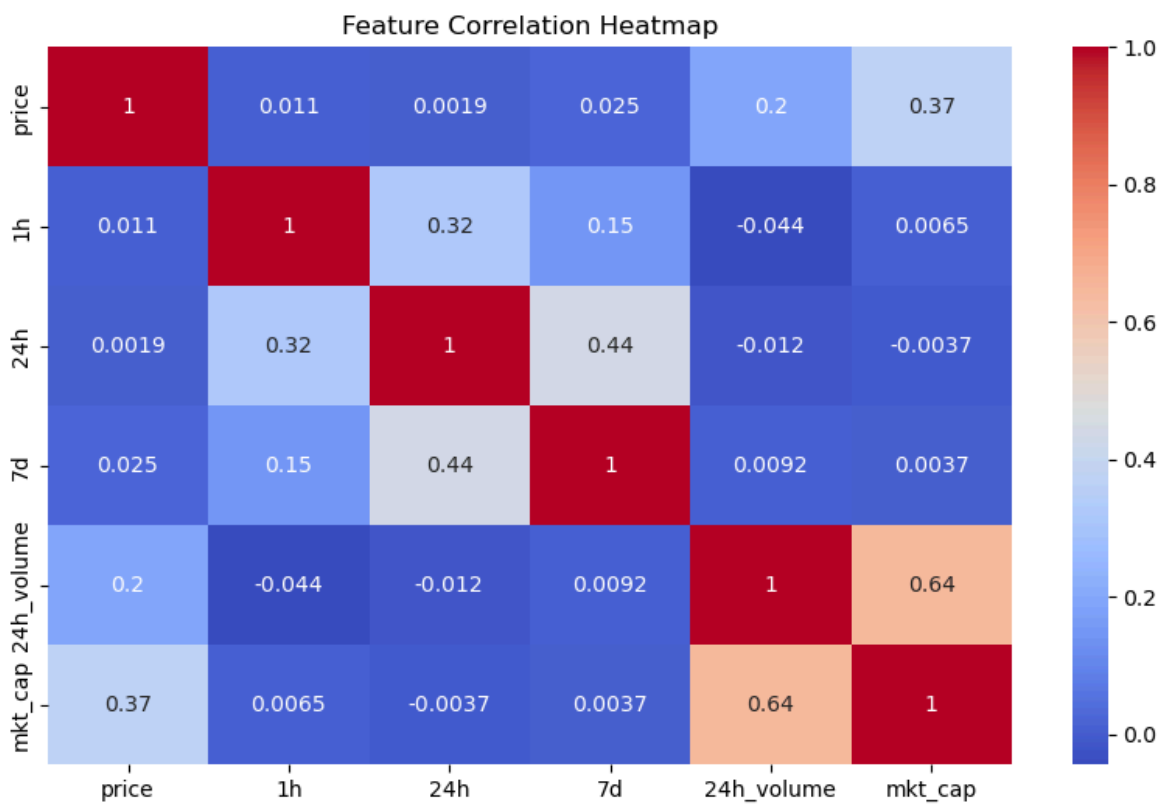


```
In [11]: top5 = df.sort_values("mkt_cap", ascending=False).head(5)

plt.figure(figsize=(8,5))
sns.barplot(x=top5['coin'], y=top5['mkt_cap'])
plt.title("Top 5 Cryptos by Market Cap")
plt.ylabel("Market Cap")
plt.xlabel("Cryptocurrency")
plt.show()
```



```
In [13]: plt.figure(figsize=(10, 6))
sns.heatmap(df.corr(numeric_only=True), annot=True, cmap="coolwarm")
plt.title("Feature Correlation Heatmap")
plt.show()
```



```
In [15]: plt.figure(figsize=(8,5))
sns.scatterplot(data=df, x='price', y='24h_volume', hue='coin')
plt.title("Price vs 24h Volume")
plt.show()
```

coin

- Bitcoin
- Ethereum
- Tether
- BNB
- USD Coin
- XRP
- Terra
- Solana
- Cardano
- Polkadot
- Avalanche
- Binance USD
- Dogecoin
- TerraUSD
- Shiba Inu
- Wrapped Bitcoin
- Cronos
- Polygon
- Dai
- Cosmos Hub
- Litecoin
- Lido Staked Ether
- Near
- Chainlink
- TRON
- FTX Token
- Bitcoin Cash
- LEO Token
- OKB
- Algorand
- Stellar
- Uniswap
- Hedera
- Axie Infinity
- Decentraland
- Ethereum Classic
- Elrond
- The Sandbox
- Internet Computer
- Monero
- cETH
- VeChain
- Fantom
- Filecoin
- Osmosis
- Klaytn
- Frax
- Waves
- Theta Network
- Magic Internet Money
- The Graph
- Tezos
- cUSDC
- Helium
- THORChain

- EOS
- ECOMI
- IOTA
- cDAI
- Flow
- Theta Fuel
- Aave
- Zcash
- Maker
- JUNO
- Gala
- BitTorrent
- Arweave
- Huobi BTC
- PancakeSwap
- Quant
- Harmony
- eCash
- Bitcoin SV
- NEO
- TrueUSD
- Huobi Token
- KuCoin Token
- Celsius Network
- Stacks
- Humans.ai
- Enjin Coin
- Basic Attention Token
- NEXO
- Amp
- Radix
- Kusama
- Celo
- Kadena
- Chiliz
- Dash
- Frax Share
- Pax Dollar
- BitDAO
- GateToken
- Convex Finance
- Synthetix Network Token
- Xido Finance
- Loopring
- NEM
- Anchor Protocol
- Oasis Network
- Curve DAO Token
- Decred
- cUSDT
- Secret
- LINK
- Mina Protocol
- Holo
- Compound
- IoTeX
- Rikub Coin

- Bitcoin
- Neutrino USD
- yearn.finance
- Nexus Mutual
- XDC Network
- 1inch
- WAX
- Smooth Love Potion
- Qtum
- PAX Gold
- Sushi
- renBTC
- Livepeer
- Ankr
- Bancor Network Token
- Pocket Network
- Marinade staked SOL
- OMG Network
- Zilliqa
- SafeMoon
- Render Token
- Fei USD
- Gnosis
- ICON
- Ravencoin
- IOST
- Bitcoin Gold
- Kava
- UMA
- OEC Token
- Songbird
- e-Radix
- Velas
- Rocket Pool
- Tether Gold
- Moonbeam
- Sapphire
- Horizen
- WOO Network
- Liquity USD
- Golem
- Rally
- Baby Doge Coin
- Audius
- Siacoin
- Metis Token
- Ontology
- 0x
- APENFT
- SKALE
- SwissBorg
- dYdX
- Dogelon Mars
- Olympus
- Constellation
- Synapse
- Immutable X

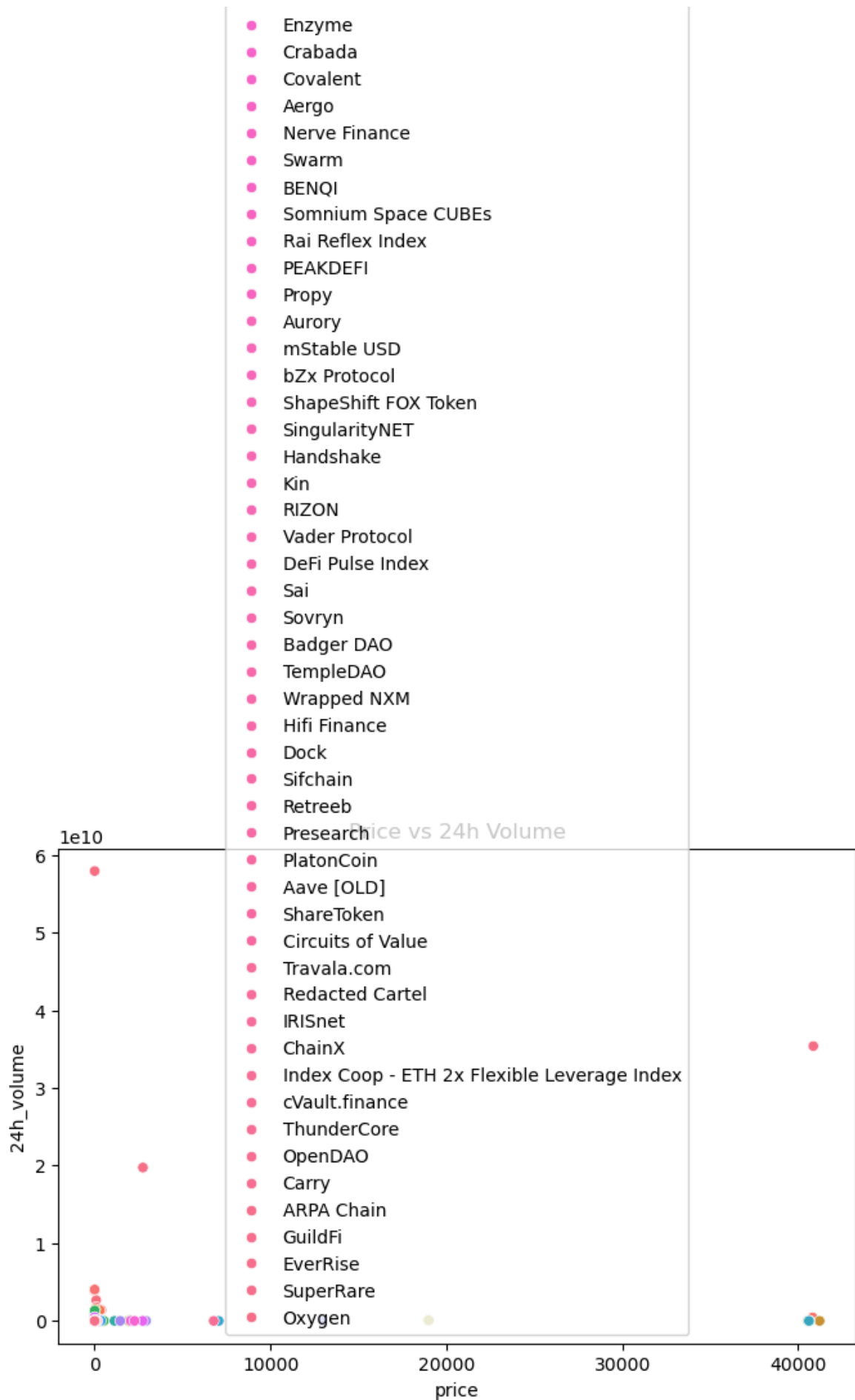
- Convex CRV
- Everdome
- Gemini Dollar
- JUST
- Decentralized Social
- Polymath
- NuCypher
- REN
- Keep Network
- Illuvium
- Flux
- Ethereum Name Service
- Hive
- Lido DAO
- STEPN
- Spell Token
- Nervos Network
- Kyber Network Crystal
- FLEX Coin
- HUSD
- Ultra
- ConstitutionDAO
- LooksRare
- DeFi Kingdoms
- Telcoin
- Tomb
- Stargaze
- DigiByte
- DigitalBits
- Syscoin
- Lisk
- Tokemak
- Nano
- Tenset
- PlayDapp
- SafeMoon [OLD]
- Ronin
- Persistence
- Radio Caca
- Pirate Chain
- MAI
- Casper Network
- Everscale
- SXP
- Floki Inu
- Zenon
- Injective
- MXC
- WINKLink
- WazirX
- Perpetual Protocol
- Mobox
- Astroport
- Trust Wallet Token
- Serum
- Coin98
- Mirror Protocol

- Zipmex Token
- Tribe
- VVS Finance
- Metahero
- Creditcoin
- Lido Staked SOL
- API3
- Escoin Token
- Function X
- Raydium
- CoinEx Token
- Euro Tether
- Fetch.ai
- Dent
- Chia
- Status
- Power Ledger
- Medibloc
- xSUSHI
- Chromia
- Yield Guild Games
- Telos
- COTI
- Alchemix USD
- Celer Network
- Orbs
- Vulcan Forged
- Energy Web Token
- Astar
- Origin Protocol
- Cratos
- Ocean Protocol
- XYO Network
- Dopex
- PLEX
- LUKSO Token
- DAO Maker
- Boba Network
- Mdex
- UFO Gaming
- Ardor
- Pundi X
- Mask Network
- Kyber Network Crystal Legacy
- Interest Bearing Bitcoin
- Coinmetro
- MX Token
- Reserve Rights Token
- Radicle
- Conflux
- Wonderland
- XSGD
- MiL.k Alliance
- Civic
- Unibright
- Aragon

- Yoshi.exchange
- SuperFarm
- Divi
- BTSE Token
- GMX
- Request
- Multichain
- Ergo
- Rari Governance Token
- FEG Token BSC
- Alchemy Pay
- Numeraire
- Power Cash
- Moonriver
- sBTC
- Cartesi
- JOE
- Veritaseum
- Bifrost
- inSure DeFi
- Aurora
- AscendEx Token
- Reef Finance
- World Mobile Token
- Mango
- Beldex
- Poollotto.finance
- Biconomy
- FEG Token
- BNB48 Club Token
- Ion
- MMFinance
- Origin Dollar
- Verge
- Kishu Inu
- Band Protocol
- Tokamak Network
- Storj
- VeThor Token
- USDX
- OriginTrail
- Merit Circle
- aelf
- Akash Network
- GPEX
- StarLink
- Pundi X [OLD]
- Acala
- Orchid Protocol
- Beta Finance
- Ark
- STASIS EURO
- Magic
- Keep3rV1
- Polkastarter
- Hxro
- flexUSD

- Bezoge Earth
- MaidSafeCoin
- Prometheus
- Iron Bank EURO
- Metadium
- Sperax
- iExec RLC
- DUSK Network
- DEAPCOIN
- StormX
- RMRK
- Qredo
- Stratis
- STP Network
- Steem
- Alpha Finance
- NKN
- RSK Infrastructure Framework
- Balancer
- Dawn Protocol
- GXChain
- Sun Token
- Dero
- Kirobo
- Alien Worlds
- Strike
- Aavegotchi
- Victoria VR
- Ankr Reward-Bearing Staked ETH
- Decentral Games
- Meerkat Shares
- FUNToken
- THORChain (ERC20)
- TrueFi
- agEUR
- sETH2
- Maple
- Spookyswap
- AIOZ Network
- Tomb Shares
- Beefy.Finance
- TitanSwap
- Phantasma
- Tornado Cash
- Alchemix
- DODO
- Hoo Token
- BTC Standard Hashrate Token
- KardiaChain
- Klever
- Orion Protocol
- BENQI Liquid Staked AVAX
- PlatON Network
- Hathor
- Kava Swap
- Proton

- Utrust
- Regen
- My Neighbor Alice
- BakerySwap
- QuarkChain
- Hydra
- TomoChain
- Pylon Protocol
- Ellipsis
- Venus
- Railgun
- Seedify.fund
- Hermez Network
- Alpine F1 Team Fan Token
- ICHI
- JasmyCoin
- CRYPTO20
- Decentral Games Governance
- Metal
- Wilder World
- Wrapped Centrifuge
- Bitcoin Diamond
- cBAT
- sUSD
- sETH
- Bounce
- Augur
- Verasity
- Neutrino System Base Token
- Platypus Finance
- Ampleforth
- Wanchain
- IDEX
- Dopex Rebate Token
- Everipedia
- ZoidPay
- Electroneum
- KeeperDAO
- cUNI
- Dvision Network
- AllianceBlock
- Bonfida
- Adventure Gold
- Avalaunch
- HUNT
- Automata
- Banana
- chrono.tech
- Celo Dollar
- CertiK
- Adshares
- DFI.money
- Gains Farm
- Gitcoin
- Biswap
- Clover Finance
- SafePal



In []: