



PERSONALITY & ASSET



DATA

Data

- Financial Personality data
- Financial Assets data

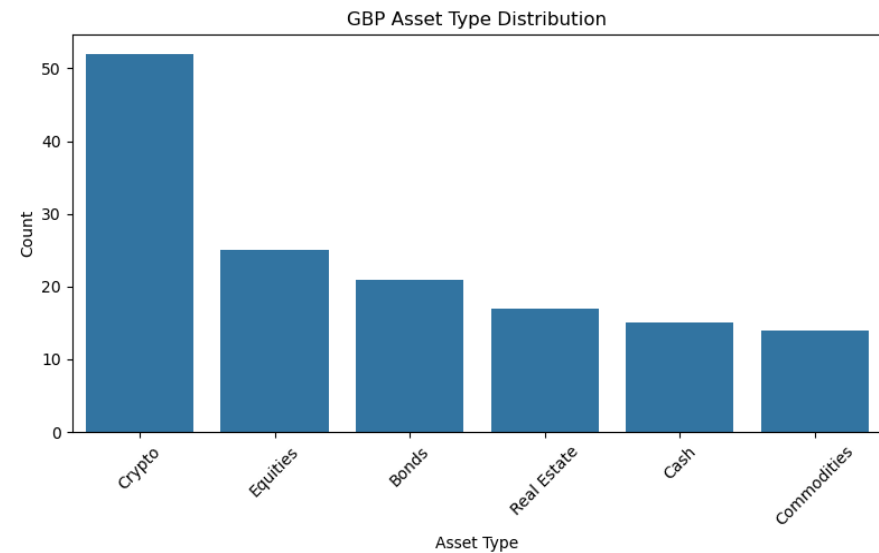
Data cleansing

- Merged the two datasets using “_id” as the common key
- Since no exchange rate was provided, the analysis was limited to GBP-denominated assets only

GBP ASSET TYPE DISTRIBUTION

Crypto is the most common asset type held in GBP, followed by Equities and Bonds.

This suggests a strong preference for Crypto among individuals with GBP-denominated investments.

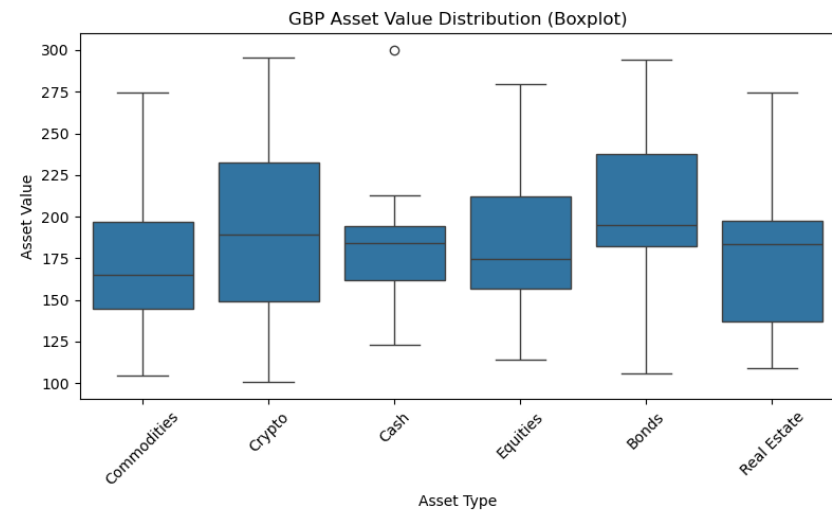


GBP ASSET DISTRIBUTION (BOXPLOT)

Overall range of asset values is fairly consistent across asset types, typically between 100 and 300 GBP. Crypto and bonds exhibit the widest spread in asset values, suggesting greater variability in investment sizes.

Cash has a relatively narrow interquartile range (IQR), indicating that most individuals hold similar amounts in cash assets.

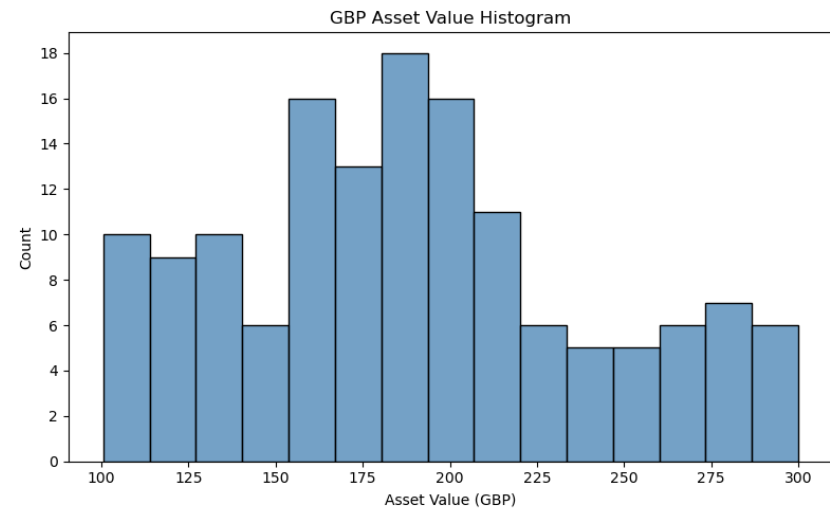
Based on the relatively small investment amounts and the uniform distribution pattern, it's highly likely that the “Real Estate” asset class in this dataset refers to REITs or real estate funds.



GBP ASSET VALUE HISTOGRAM

Most GBP asset values fall between 150 and 220.

The distribution is slightly left-skewed, indicating a majority of assets are in the lower-to-mid value range with fewer high-value holdings.



LINEAR REGRESSION: GBP ASSETS AND PERSONALITY TRAITS

None of the personality traits is significantly correlated with total GBP assets (p-values > 0.05).

The model explains very little variance ($R^2 \approx 0$), suggesting no linear relationship exists between personality and GBP asset total.

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OLS Regression Results

Dep. Variable: total_assets_gbp    R-squared:    0.019
Model: OLS                      Adj. R-squared: -0.023
Method: Least Squares           F-statistic:   0.4578
Date: Sun, 15 Jun 2025          Prob (F-statistic): 0.807
Time: 11:29:40                  Log-Likelihood: -733.60
No. Observations: 122           AIC:           1479.
Df Residuals: 116              BIC:           1496.
Df Model: 5

Covariance Type: nonrobust

               coef    std err          t      P>|t|   [0.025   0.975]
Intercept    266.9590    87.689     3.044   0.003 93.279   440.639
confidence   -99.2378    247.967   -0.400   0.690 -590.367  391.892
risk_tolerance 210.3348    314.377    0.669   0.505 -412.328  832.998
composure   -173.6814    170.717   -1.017   0.311 -511.807  164.444
impulsivity   -1.7923     32.060   -0.056   0.956 -65.291   61.707
impact_desire -24.8273     31.800   -0.781   0.437 -87.812   38.158

Omnibus:      24.541   Durbin-Watson:   1.962
Prob(Omnibus): 0.000   Jarque-Bera (JB): 31.632
Skew:         1.179    Prob(JB):      1.35e-07
Kurtosis:     3.812    Cond. No.      65.5
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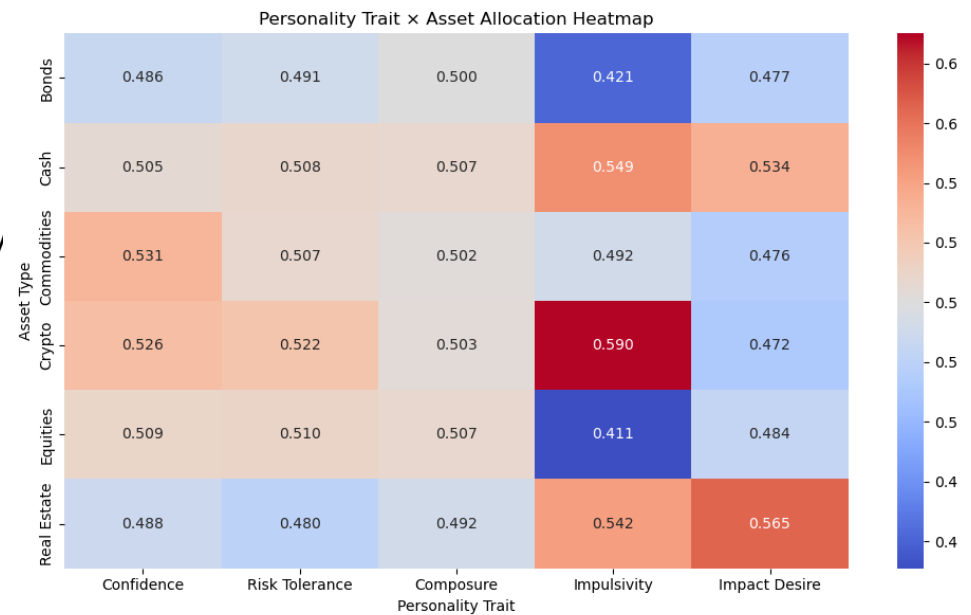
Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

PERSONALITY TRAIT × ASSET ALLOCATION HEATMAP

Crypto holders tend to be more impulsive;
Real Estate investors show higher impact
desire.

Impulsivity shows the greatest variation
across asset types, suggesting it may play
a key role in distinguishing investment
behavior. However, this trend is not
statistically significant.



SUMMARY & FURTHER CONSIDERATIONS

Summary

- Asset type distribution showed Crypto as the most frequently held asset in GBP.
- No significant correlation was found between total GBP assets and personality traits.
- A linear regression model confirmed that personality scores do not significantly explain variation in asset values.
- Impulsivity varied slightly across asset types, with Crypto and Cash holders showing

Further Considerations

- Include non-GBP assets to gain a more comprehensive view
- Investigate additional factors (e.g., age, income, financial literacy) alongside personality and risk tolerance.
- Explore longitudinal data to assess whether personality has relationship with asset accumulation over time.