

# Numismatic Website

Welcome to the Numismatic Website, a platform dedicated to the exploration and analysis of ancient Roman coins. Our website offers two primary features:

## Roman Coin Identification and Price Prediction:

- Identification: Utilising Convolutional Neural Networks (CNN), our platform accurately classifies Roman Republican Coins with a remarkable accuracy of 99.8%.
- Price Prediction: Leveraging Machine Learning algorithms, particularly the Random Forest Regressor, we predict the prices of Roman Coins with an accuracy of 45%. This prediction is based on six weeks of trading data gathered from eBay through web scraping.

## Ancient Mints and Findspots Visualization:

- Explore the ancient mints and findspots of coins in Europe through an intuitive interface powered by an API.

Our platform is designed to provide enthusiasts, collectors, and researchers with valuable insights into Roman numismatics. Join us in unravelling the mysteries and history behind these ancient artefacts.

## Features:

- Identify Roman Republican Coins with 99.8% accuracy using CNN.
- Predict the prices of Roman Coins with 45% accuracy based on six weeks of eBay trading data.
- Explore ancient mints and findspots of coins in Europe through an intuitive API.

## Installation:

To run the Numismatic Website locally, follow these steps:

Clone the repository:

```
git clone https://github.com/Prachit707/Numismatic_Website.git
```

Install dependencies:

```
pip install -r requirements.txt
```

Run the application:

```
python app.py
```

## Usage:

- Access the website through your web browser.
- Upload images of Roman Republican Coins for identification.
- Use the price prediction feature to estimate the value of Roman Coins.