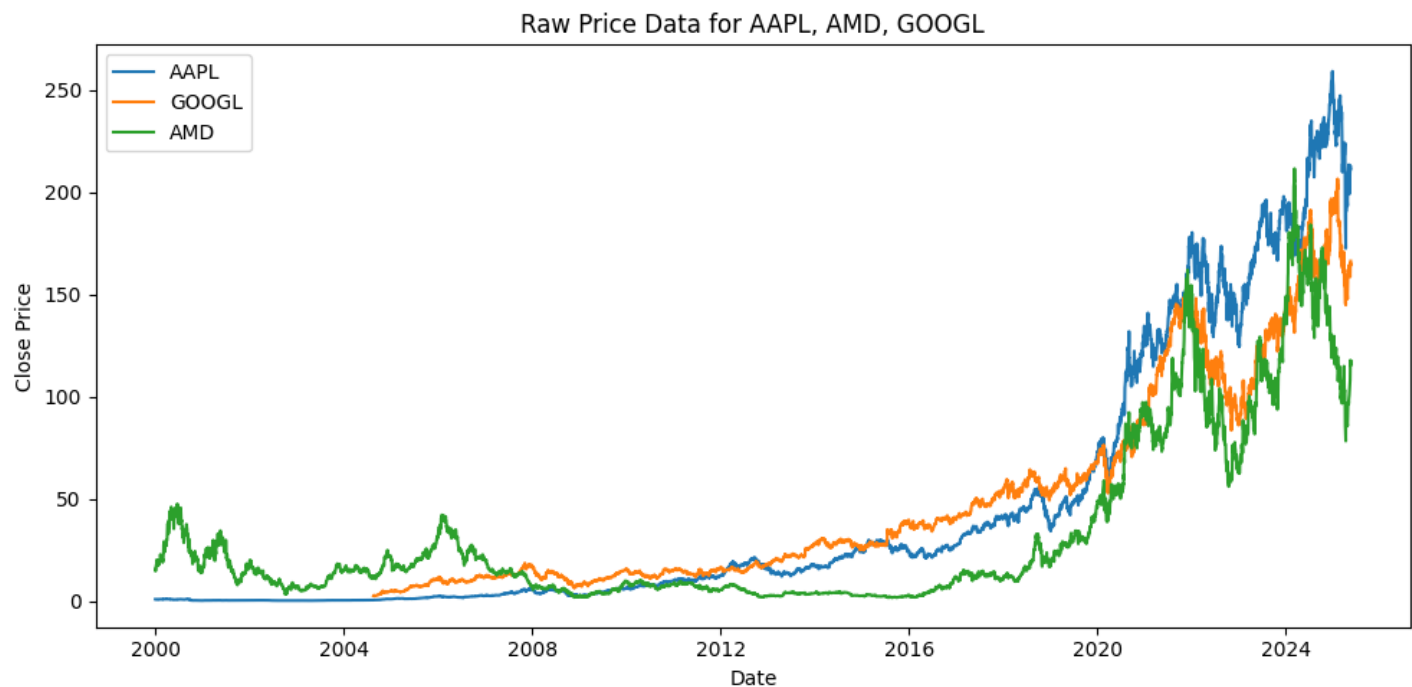


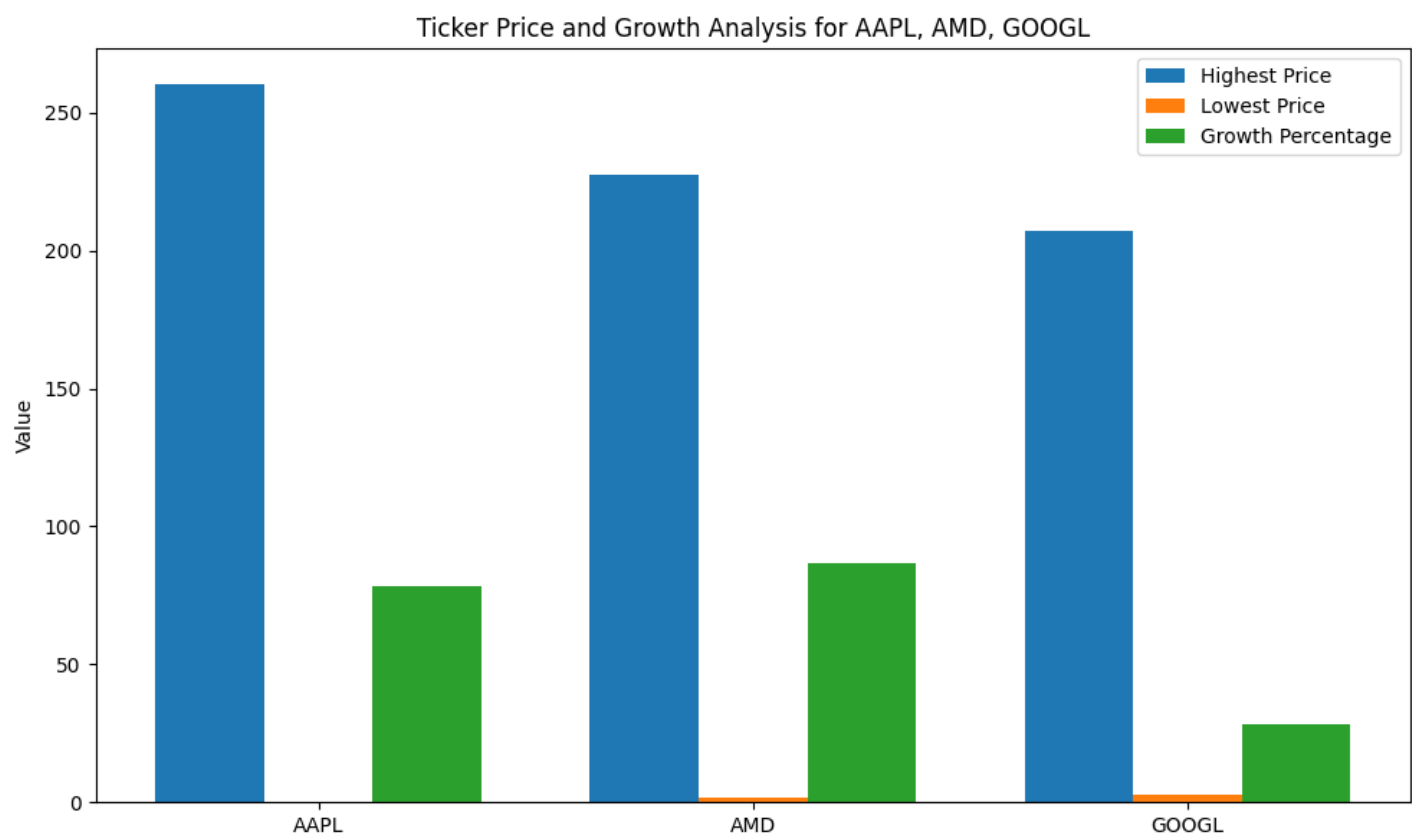
# Stock Analysis Report

Generated on: 2025-05-19 16:19:32

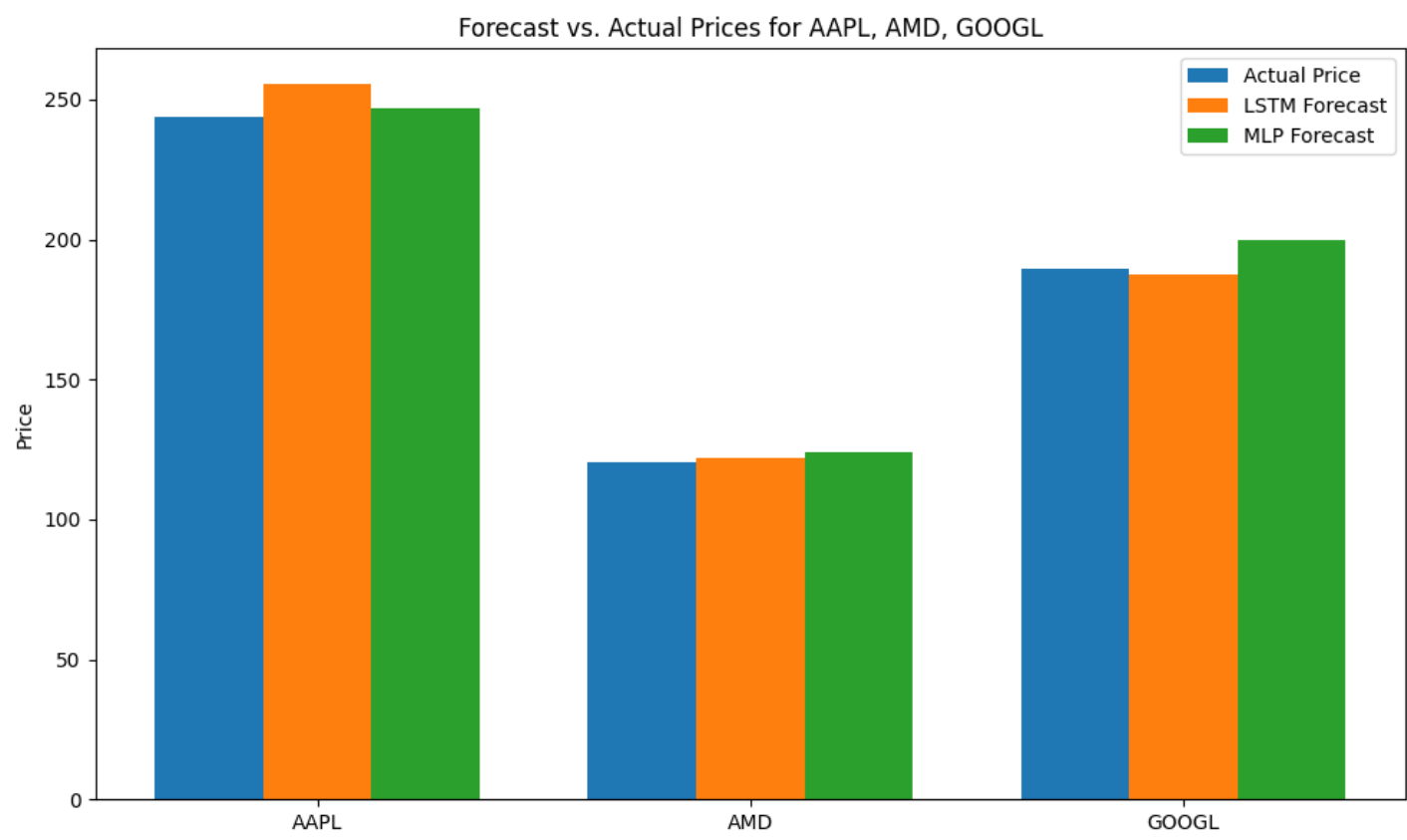
## 1. Raw Price Data Overview



## 2. Ticker Price and Growth Analysis



### 3. Forecast vs. Actual Prices



## 4. LLM Recommendations

### Ticker: AAPL

Recommendation: Hold

Reasoning: For AAPL, the LSTM model forecasts a price of \$255.47 and MLP forecasts \$246.70 by 2025-01-02, against an actual price of \$243.85. Given the cautious, long-term growth investment strategy, a hold recommendation is appropriate as the predicted gains are moderate and align with steady growth rather than aggressive returns. The potential upside is limited.

#### Forecasts:

- LSTM: {'target\_date': '2025-01-02', 'actual\_price': 243.8500061035156, 'predicted\_price': 255.46938768428194, 'performance': 'Moderate upside potential'}
- MLP: {'target\_date': '2025-01-02', 'actual\_price': 243.8500061035156, 'predicted\_price': 246.69986911682187, 'performance': 'Slight upside potential'}

### Ticker: AMD

Recommendation: Hold

Reasoning: For AMD, the LSTM model forecasts a price of \$122.19 and MLP forecasts \$124.27 by 2025-01-02, against an actual price of \$120.63. Given the cautious, long-term growth investment strategy, a hold recommendation is given as the predicted gains are modest and align with steady growth rather than aggressive returns. The small upside does not warrant a buy.

#### Forecasts:

- LSTM: {'target\_date': '2025-01-02', 'actual\_price': 120.62999725341795, 'predicted\_price': 122.19402217343539, 'performance': 'Slight upside potential'}
- MLP: {'target\_date': '2025-01-02', 'actual\_price': 120.62999725341795, 'predicted\_price': 124.26527238962402, 'performance': 'Moderate upside potential'}

### Ticker: GOOGL

Recommendation: Hold

Reasoning: For GOOGL, the LSTM model forecasts a price of \$187.39 and MLP forecasts \$199.57 by 2025-01-02, against an actual price of \$189.43. Given the cautious, long-term growth investment strategy, a hold recommendation is given because one model predicts a slight decrease, while the other predicts a moderate increase. The mixed signals suggest holding the position.

#### Forecasts:

- LSTM: {'target\_date': '2025-01-02', 'actual\_price': 189.42999267578125, 'predicted\_price':

187.38962852255833, 'performance': 'Slight downside potential'}

- MLP: {'target\_date': '2025-01-02', 'actual\_price': 189.42999267578125, 'predicted\_price': 199.56865607449168, 'performance': 'Moderate upside potential'}