Results:

Automobile:

MSE RMSE NRMSE MAE Actual Growth % \

EICHERMOT 1.944793e+07 4409.981227 0.219544 2861.164422 -88.535410

HEROMOTOCO 2.700516e+04 164.332472 0.091655 129.736383 27.849376

M&M 3.592442e+03 59.936982 0.123327 48.151351 34.289974

MARUTI 2.304297e+05 480.030899 0.126602 389.112429 4.621360

BAJAJ-AUTO 3.977999e+04 199.449223 0.131859 163.537124 9.331450

TATAMOTORS 5.144473e+02 22.681430 0.167948 18.438301 -0.325291

Predicted Growth %

EICHERMOT -74.290007

HEROMOTOCO 22.278745

M&M 38.853532

MARUTI -1.506548

BAJAJ-AUTO -1.665810

TATAMOTORS 2.404595

Average Metrics for All Stocks:

{'MSE': 3291542.6876527728, 'RMSE': 889.4020388084564, 'NRMSE': 0.14348916758936398, 'MAE': 601.6900018510364, 'Actual Growth %': -2.1280901770834437, 'Predicted Growth %': -2.3209156468510628}

Chemicals:

MSE RMSE NRMSE MAE Actual Growth % \

UPL 2413.107731 49.123393 0.140373 37.723725 -20.722482

Predicted Growth %

UPL -8.607301

Average Metrics for All Stocks:

{'MSE': 2413.107730850845, 'RMSE': 49.123392908581195, 'NRMSE': 0.14037260439657437, 'MAE': 37.72372528560578, 'Actual Growth %': -20.722481937951557, 'Predicted Growth %': -8.607301115989685}

Construction:

MSE RMSE NRMSE MAE Actual Growth % \

LT 8424.028555 91.782507 0.138581 74.183694 -1.706172

Predicted Growth %

LT 2.10435

Average Metrics for All Stocks:

{'MSE': 8424.02855510133, 'RMSE': 91.78250680331917, 'NRMSE': 0.1385814688257876, 'MAE': 74.18369358607703, 'Actual Growth %': -1.706171991297388, 'Predicted Growth %': 2.104349620640278}

Construction Materials:

MSE RMSE NRMSE MAE Actual Growth % \

GRASIM 4.129180e+03 64.258697 0.119529 48.294260 24.962963

SHREECEM 3.532374e+06 1879.461223 0.203650 1666.224980 18.175778

ULTRACEMCO 5.940614e+04 243.733743 0.104309 190.580901 30.089791

Predicted Growth %

GRASIM 11.315782

SHREECEM 11.684858

ULTRACEMCO 17.021748

Average Metrics for All Stocks:

{'MSE': 1198636.6025868298, 'RMSE': 729.1512211783348, 'NRMSE': 0.14249580525945302, 'MAE': 635.0333802642016, 'Actual Growth %': 24.409510761659458, 'Predicted Growth %': 13.340796033541361}

Consumer Durables:

MSE RMSE NRMSE MAE Actual Growth % \

ASIANPAINT 59848.470506 244.639470 0.193230 203.368510 54.165737

TITAN 22128.500643 148.756515 0.194148 122.685414 35.713358

Predicted Growth %

ASIANPAINT 26.800117

TITAN 10.690006

Average Metrics for All Stocks:

{'MSE': 40988.48557457972, 'RMSE': 196.6979925409914, 'NRMSE': 0.1936894552743695, 'MAE': 163.02696191696893, 'Actual Growth %': 44.939547549601286, 'Predicted Growth %': 18.74506138265133}

Financial services:

MSE RMSE NRMSE MAE Actual Growth % \

HDFCBANK 4786.080467 69.181504 0.102628 51.874786 12.333803

ICICIBANK 1410.064115 37.550820 0.141541 31.499789 -0.316721

INDUSINDBK 25640.857331 160.127628 0.129307 106.418609 -39.705585

BAJAJFINSV 852388.885426 923.249092 0.159263 714.857731 -5.033881

AXISBANK 2743.991093 52.383118 0.115432 34.851829 -17.129691

HDFC 19324.203836 139.011524 0.131254 110.058266 5.123359

BAJFINANCE 100934.618013 317.702090 0.090639 259.687632 25.143573

KOTAKBANK 25674.794559 160.233563 0.174224 139.307227 19.207909

SBIN 364.686007 19.096754 0.101336 13.914835 -17.790402

Predicted Growth %

HDFCBANK 11.283643

ICICIBANK -5.624306

INDUSINDBK -34.880504

BAJAJFINSV -1.221391

AXISBANK -13.172732

HDFC 0.062814

BAJFINANCE 20.763502

KOTAKBANK 10.605349

SBIN -13.989986

Average Metrics for All Stocks:

{'MSE': 114807.57564971066, 'RMSE': 208.72623257173453, 'NRMSE': 0.1272915880429956, 'MAE': 162.49674478090208, 'Actual Growth %': -2.018626334190617, 'Predicted Growth %': -2.908179090849848}

FMCG(Fast Moving Consumer Goods):

MSE RMSE NRMSE MAE Actual Growth % \

HINDUNILVR 7.778941e+04 278.907521 0.429584 261.578653 23.694198

BRITANNIA 9.011711e+04 300.195125 0.162725 271.782743 17.656638

NESTLEIND 1.640897e+06 1280.974912 0.221314 1155.879915 24.434588

ITC 1.057347e+03 32.516879 0.338717 30.115482 -12.221756

Predicted Growth %

HINDUNILVR 11.464369

BRITANNIA 12.181645

NESTLEIND 21.828896

ITC -5.738736

Average Metrics for All Stocks:

{'MSE': 452465.1479357435, 'RMSE': 473.14860936145, 'NRMSE': 0.2880851026117026, 'MAE': 429.8391981790936, 'Actual Growth %': 13.390917282674982, 'Predicted Growth %': 9.934043232351542}

Healthcare:

MSE RMSE NRMSE MAE Actual Growth % \

CIPLA 1171.264845 34.223747 0.074643 26.325763 72.294600

DRREDDY 65241.582794 255.424319 0.094273 184.344046 80.770299

SUNPHARMA 1986.177552 44.566552 0.166386 37.611925 36.391895

Predicted Growth %

CIPLA 62.955582

DRREDDY 81.366754

SUNPHARMA 29.709029

Average Metrics for All Stocks:

{'MSE': 22799.675063844858, 'RMSE': 111.40487262146911, 'NRMSE': 0.1117674898976343, 'MAE': 82.76057785276383, 'Actual Growth %': 63.15226469239943, 'Predicted Growth %': 58.010454972585045}

IT Sector:

MSE RMSE NRMSE MAE Actual Growth % \

HCLTECH 3035.279267 55.093369 0.101959 42.182434 65.425299

TECHM 2545.880751 50.456722 0.101717 38.923710 27.699777

WIPRO 372.566904 19.301992 0.086208 14.998235 55.934598

TCS 9948.386743 99.741600 0.077071 73.594351 32.070031

INFY 3797.228550 61.621656 0.084488 47.554983 70.428174

Predicted Growth %

HCLTECH 35.905054

TECHM 17.722093

WIPRO 38.620764

TCS 31.058863

INFY

Average Metrics for All Stocks:

{'MSE': 3939.8684429926298, 'RMSE': 57.24306775734054, 'NRMSE': 0.09028867180086791, 'MAE': 43.45074278089736, 'Actual Growth %': 50.31157600115959, 'Predicted Growth %': 35.059092938899994}

Metals and Mining:

MSE RMSE NRMSE MAE Actual Growth % \

TATASTEEL 1314.538324 36.256562 0.092989 26.663056 37.605559

JSWSTEEL 1040.714813 32.260112 0.130873 26.081262 44.423722

VEDL 166.969760 12.921678 0.124907 9.099525 4.398448

HINDALCO 263.204527 16.223579 0.098444 12.007808 12.249183

Predicted Growth %

TATASTEEL 42.842335

JSWSTEEL 30.316472

VEDL -3.381516

HINDALCO 12.054723

Average Metrics for All Stocks:

{'MSE': 696.3568558783519, 'RMSE': 24.41548288535498, 'NRMSE': 0.1118033933839654, 'MAE': 18.46291274570283, 'Actual Growth %': 24.66922800274045, 'Predicted Growth %': 20.458003412932158}

Oil and Gas:

MSE RMSE NRMSE MAE Actual Growth % \

RELIANCE 98564.393189 313.949667 0.217945 268.725688 31.511659

COALINDIA 795.223199 28.199702 0.275388 26.101506 -36.093418

IOC 261.148832 16.160100 0.291436 13.753611 -27.788805

GAIL 2958.071967 54.388160 0.873705 53.358579 1.691419

BPCL 1455.421903 38.149992 0.159724 29.871167 -22.485508

ONGC 521.918453 22.845535 0.333755 20.803503 -26.990977

Predicted Growth %

RELIANCE 13.960734

COALINDIA -19.068259

IOC -20.528908

GAIL 4.868589

BPCL -25.576520

ONGC -15.604065

Average Metrics for All Stocks:

{'MSE': 17426.02959052785, 'RMSE': 78.94885928950323, 'NRMSE': 0.3586587114401201, 'MAE': 68.76900877675051, 'Actual Growth %': -13.359271719656531, 'Predicted Growth %': -10.324738236765066}

Power Sector:

MSE RMSE NRMSE MAE Actual Growth % \

POWERGRID 93.052420 9.646368 0.159444 7.274132 -2.890026

NTPC 126.152333 11.231756 0.236707 9.239615 -18.264089

Predicted Growth %

POWERGRID 2.419824

NTPC -11.777440

Average Metrics for All Stocks:

{'MSE': 109.60237671128544, 'RMSE': 10.439061906320283, 'NRMSE': 0.19807564029247143, 'MAE': 8.256873669700017, 'Actual Growth %': -10.57705721388586, 'Predicted Growth %': -4.678808152675629}

Services Sector:

MSE RMSE NRMSE MAE Actual Growth % \

ADANIPORTS 565.207577 23.774095 0.085642 16.696082 28.094797

Predicted Growth %

ADANIPORTS 25.908473

Average Metrics for All Stocks:

{'MSE': 565.20757692946, 'RMSE': 23.774094660564046, 'NRMSE': 0.08564155137090794, 'MAE': 16.696082075815355, 'Actual Growth %': 28.094796769495574, 'Predicted Growth %': 25.908473134040833}

Telecom Sector:

MSE RMSE NRMSE MAE Actual Growth % \

BHARTIARTL 531.525088 23.054828 0.114644 18.127032 12.442091

ZEEL 9139.655250 95.601544 0.527602 91.619127 -22.570587

Predicted Growth %

BHARTIARTL 14.839412

ZEEL -9.612755

Average Metrics for All Stocks:

{'MSE': 4835.5901689759385, 'RMSE': 59.32818602147614, 'NRMSE': 0.3211229702343773, 'MAE': 54.87307963901096, 'Actual Growth %': -5.064247943053556, 'Predicted Growth %': 2.613328769803047}