



STOCK MARKET DATA SCIENCE & PORTFOLIO MANAGEMENT INTERNSHIP 2026

15-Day Remote Internship | 22 Aug – 05 Sep 2026

PROGRAM OVERVIEW

Sector Future is offering a 15-day remote internship focused on Stock Market Portfolio Management through a Data Science approach. Interns work with daily stock-market datasets, analyze financial data, identify relationships between variables and profitability, develop and evaluate analytical/forecasting models, and apply their findings to a simulated portfolio. The program combines guided learning with independent practical work — concepts are shared by Sector Future, and interns apply them independently to real datasets.

DURATION	15 Days (22 Aug – 05 Sep 2026)	MODE	Online / Remote
DAILY WINDOW	11:00 AM – 5:00 PM (work) & 8:00 PM (feedback session)	SELECTED INTERNS	Paid / Unpaid — based on performance
STIPEND	Rs. 5,000 (2 top performers)	AI POLICY	AI coding assistance allowed; understanding required

DAILY WORKFLOW

11:00 AM Dataset & task shared via email • **11:00 AM–5:00 PM** Independent analysis, coding & modelling • **5:00 PM** Daily submission deadline • **8:00 PM** Knowledge-sharing & feedback session

PROGRAM STRUCTURE

Week 1 22–28 Aug	Understanding different stock-market datasets — structure, variables, cleaning, missing values, distributions, and relationships between variables. Focus: understand the data before building models.
Week 2 29 Aug–03 Sep	Modelling, forecasting & evaluation — time series (ARIMA, ARCH), deep learning (N-BEATS), and predictive models, each selected and justified by the intern, with evaluation via MAE, RMSE, MAPE, R^2 , and directional accuracy.
Final 2 Days 04–05 Sep	Real market prediction & monitoring — interns build a forecasting framework, predict the next trading day, document reasoning, and compare predictions against actual market outcomes.

CORE FOCUS

Interns investigate what impacts stock-market profitability and portfolio performance — moving beyond reported outcomes to explain *why* results occurred, which variables contributed, and how reliable the analysis is. No predefined trading strategy is provided; the goal is independent analytical thinking. Work culminates in a full Jupyter Notebook project and final presentation covering data understanding, modelling, evaluation, portfolio analysis, and next-day market prediction.

Skills Gained: Stock-Market & Financial Data Analysis, Data Cleaning & EDA, Statistics, Time Series & Forecasting, Model Development & Evaluation, ARIMA / ARCH / N-BEATS*, Portfolio Analytics & Risk Analysis, Python & Jupyter Notebook, Data-Driven Decision Making (*if used)

EVALUATION CRITERIA

Area	Weight
Daily Analysis & Consistency	15%
Data Understanding & EDA	15%
Statistical / Analytical Reasoning	15%
Modelling & Evaluation	15%
Code Quality & Technical Implementation	10%
Portfolio Analysis	10%
Final Project	10%
Final Presentation & Explanation	10%

CERTIFICATE & OUTCOME

Interns who successfully complete the program receive the **Sector Future Stock Market Data Science & Portfolio Management Internship Certificate** — a practical, feedback-driven learning experience, not a certificate-only program.