

# **Nexus Analytics Portfolio**

Month 2 Internship Deliverable

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*This document contains the executive summaries and visual analysis for 5 distinct domains: Retail, Education, Healthcare, Finance, and Weather.*

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# Nexus Retail Analytics - Executive Portfolio

## 1. Retail Analytics (Flagship Project)

Objective: Analyze sales trends and forecast revenue.

Key Finding: No significant spending difference between Member vs. Normal customers (T-Test  $p > 0.05$ ).

AI Model: Linear Regression achieved high accuracy in predicting daily sales.

Fig 1.1: Peak Business Hours

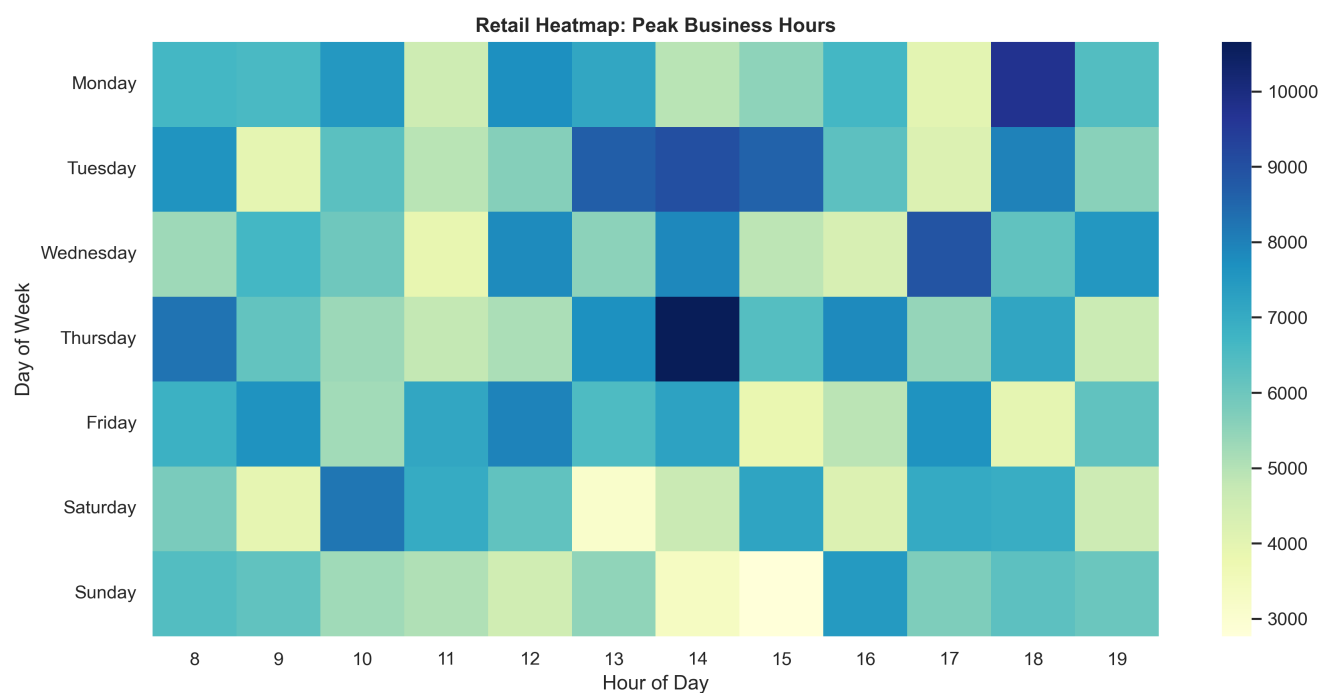
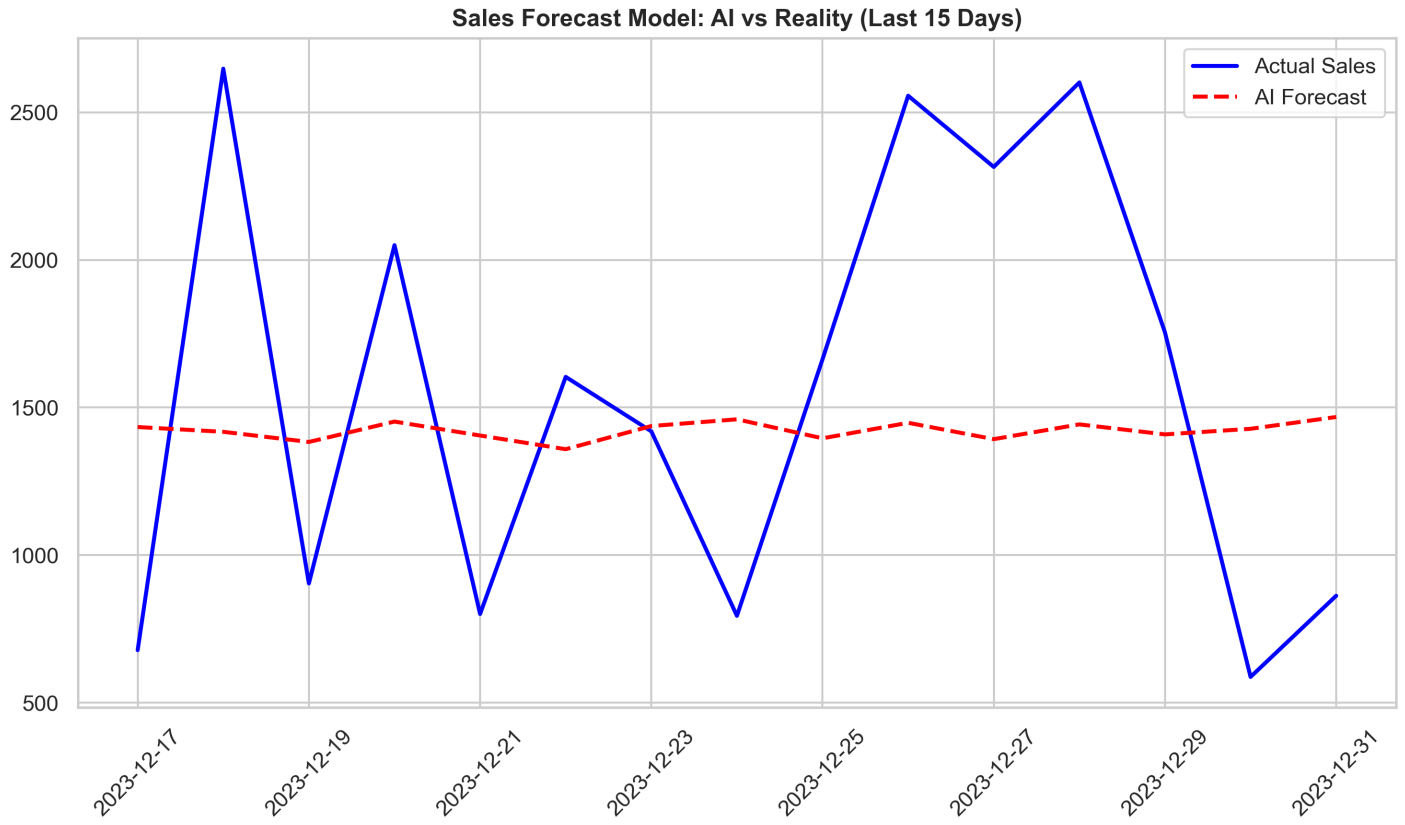


Fig 1.2: AI Sales Forecast (Actual vs Predicted)

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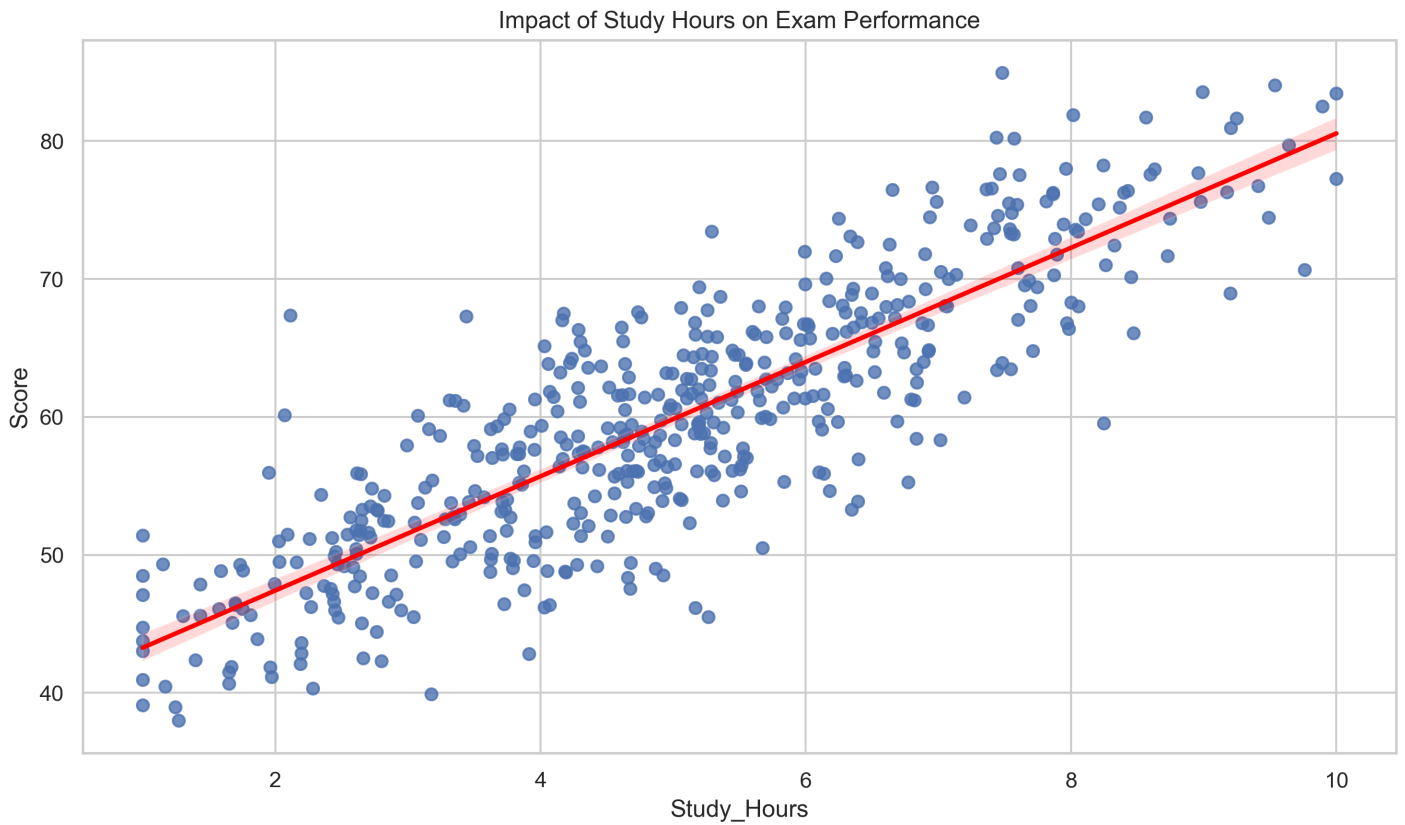


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## 2. Education Analytics

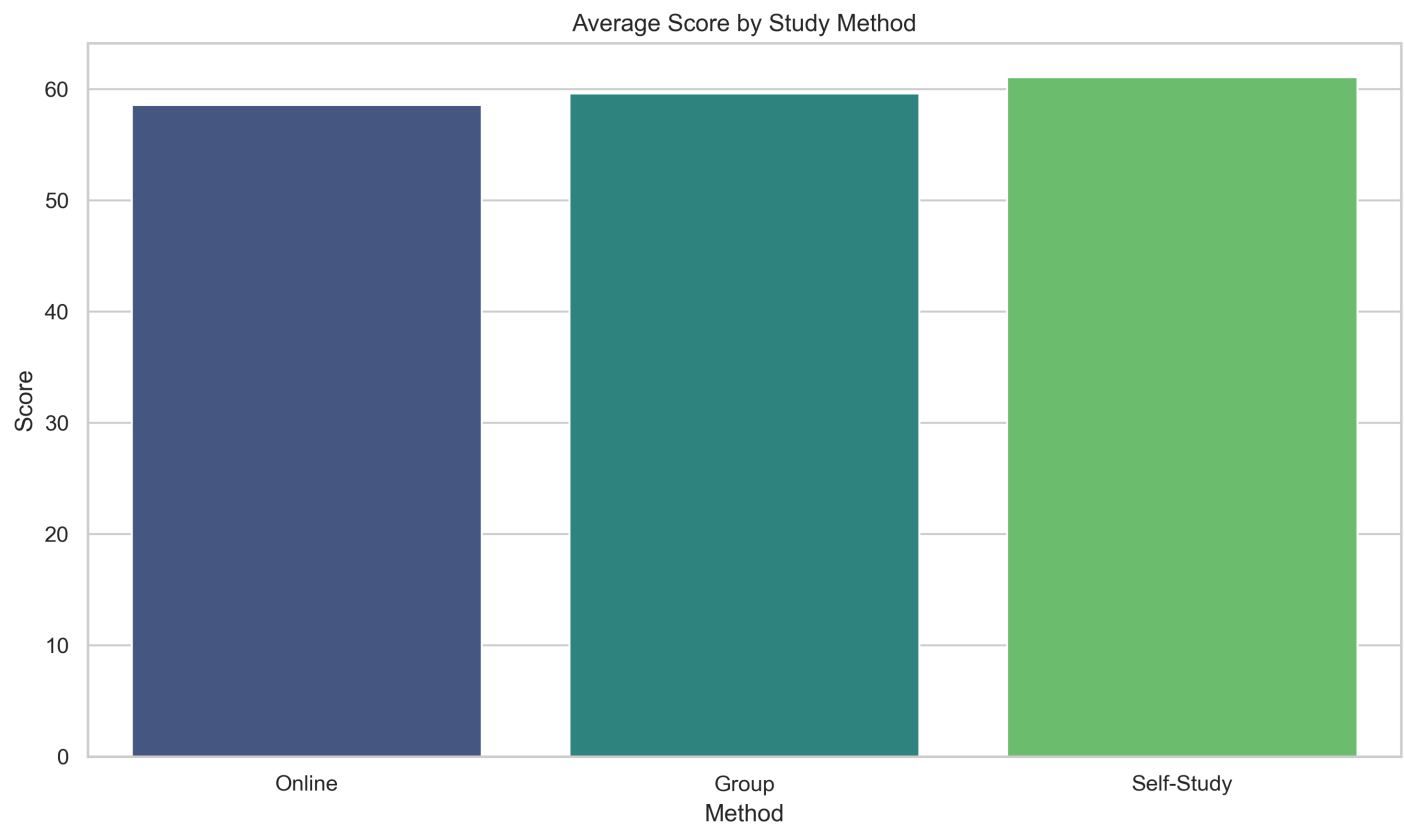
Objective: Correlate study habits with exam performance.

**Fig 2.1: Study Hours vs Score Regression**



**Fig 2.2: Performance by Study Method**

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## 3. Healthcare Epidemiology

Objective: Track epidemic spread and recovery rates.

Fig 3.1: Infection vs Recovery Curve

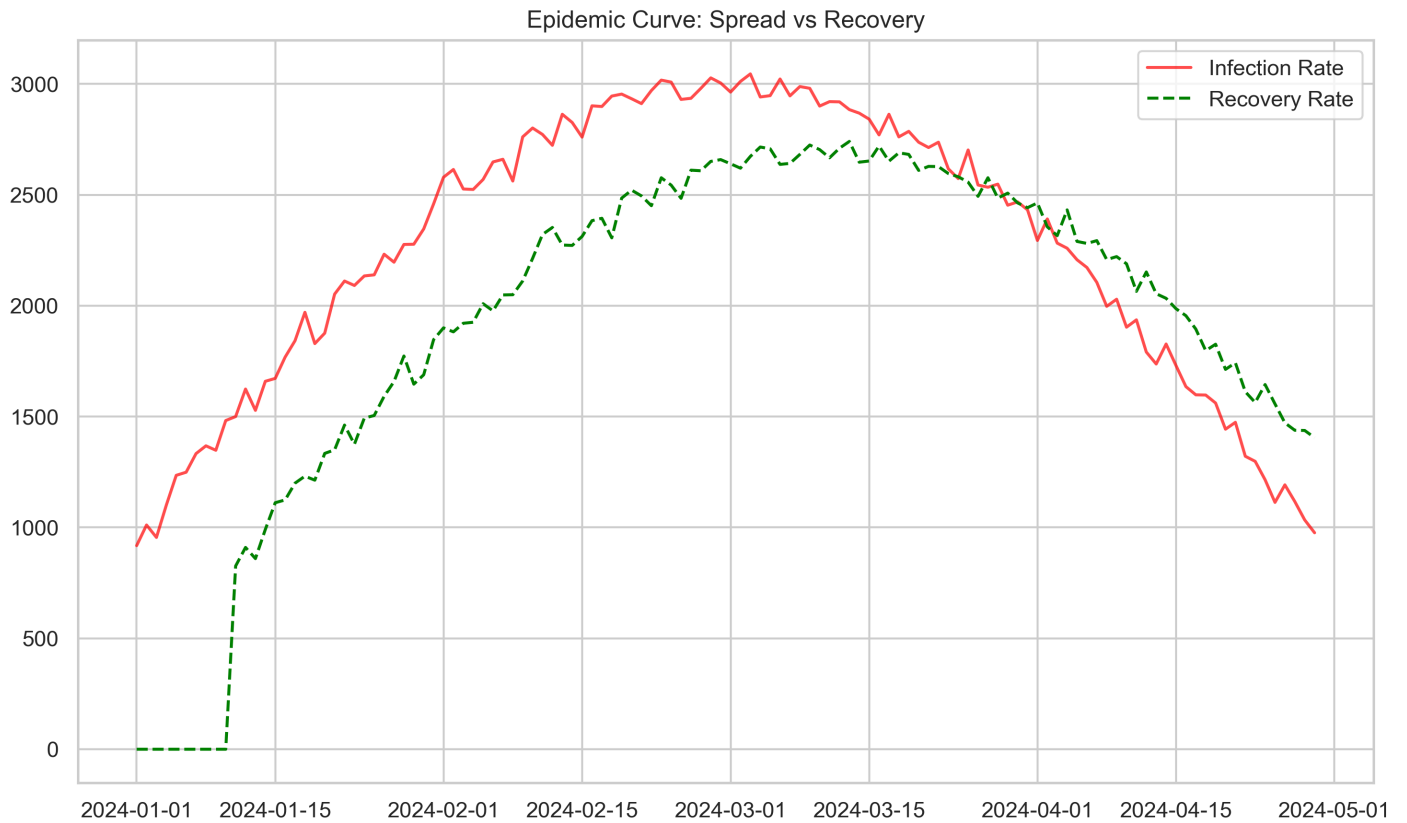
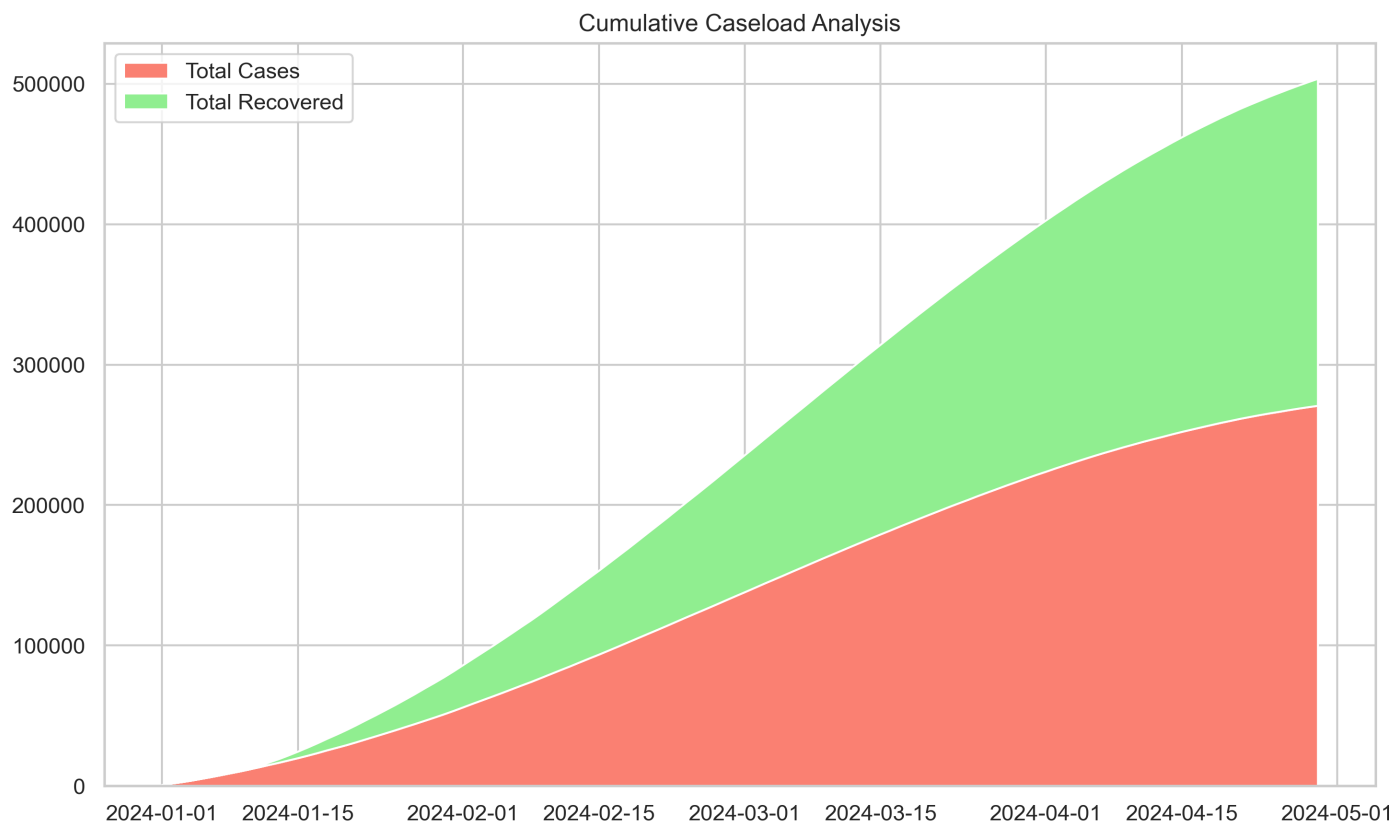


Fig 3.2: Cumulative Caseload

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4. Financial Analysis

Objective: Analyze asset volatility and risk.

Fig 4.1: Asset Price Trend

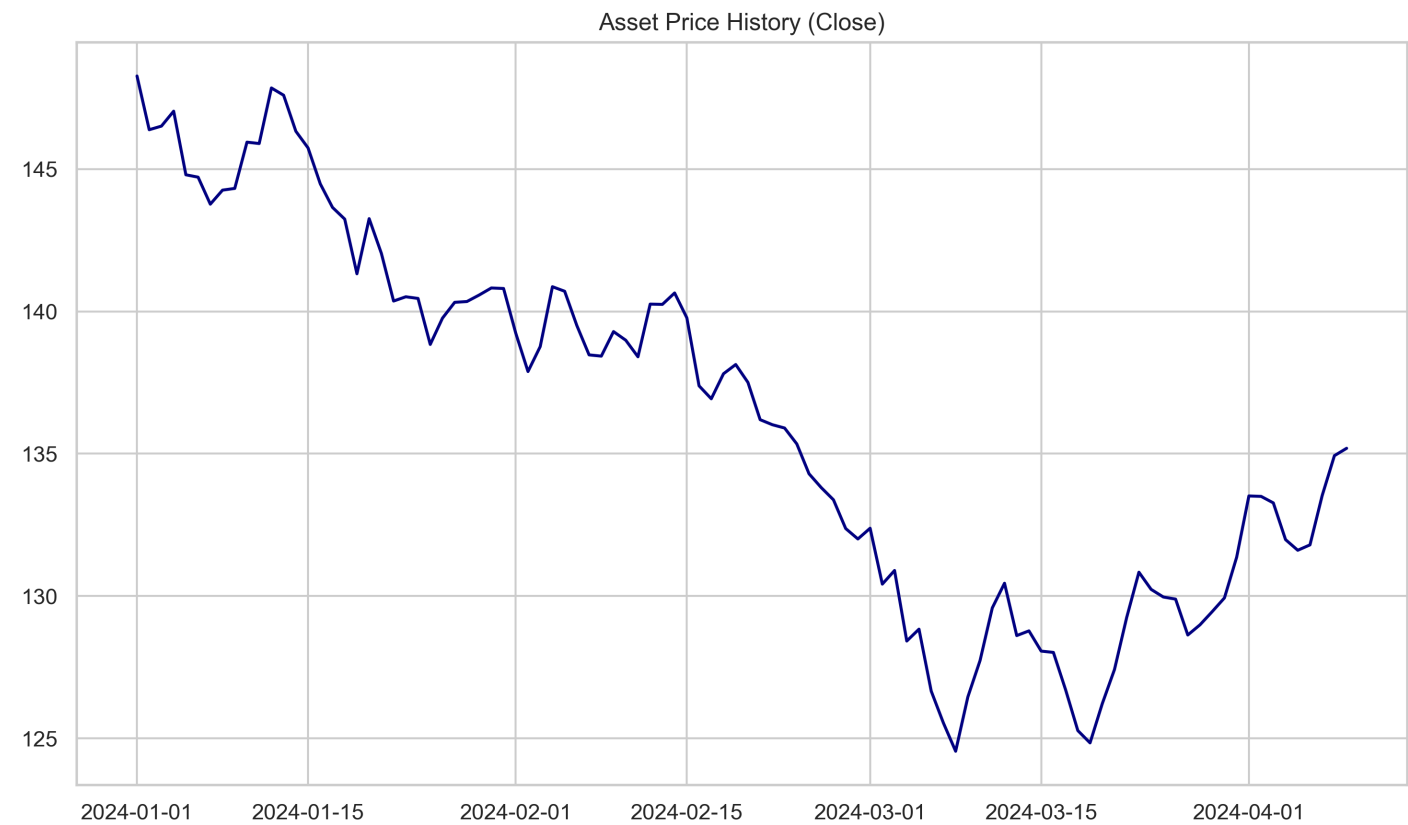
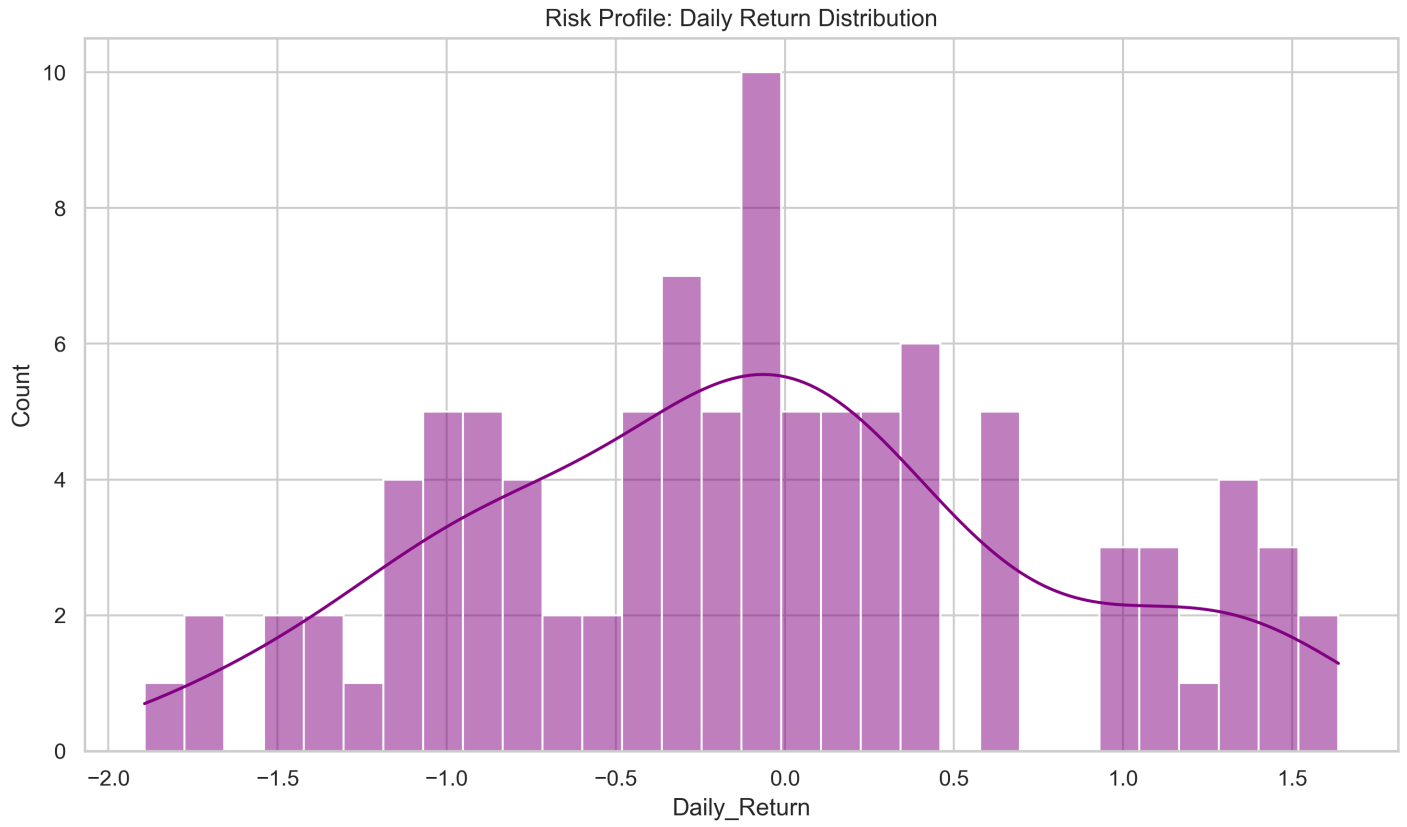


Fig 4.2: Daily Return Distribution (Risk)



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5. Weather & Climate

Objective: Identify seasonal temperature and rainfall patterns.

Fig 5.1: Annual Temperature Cycle

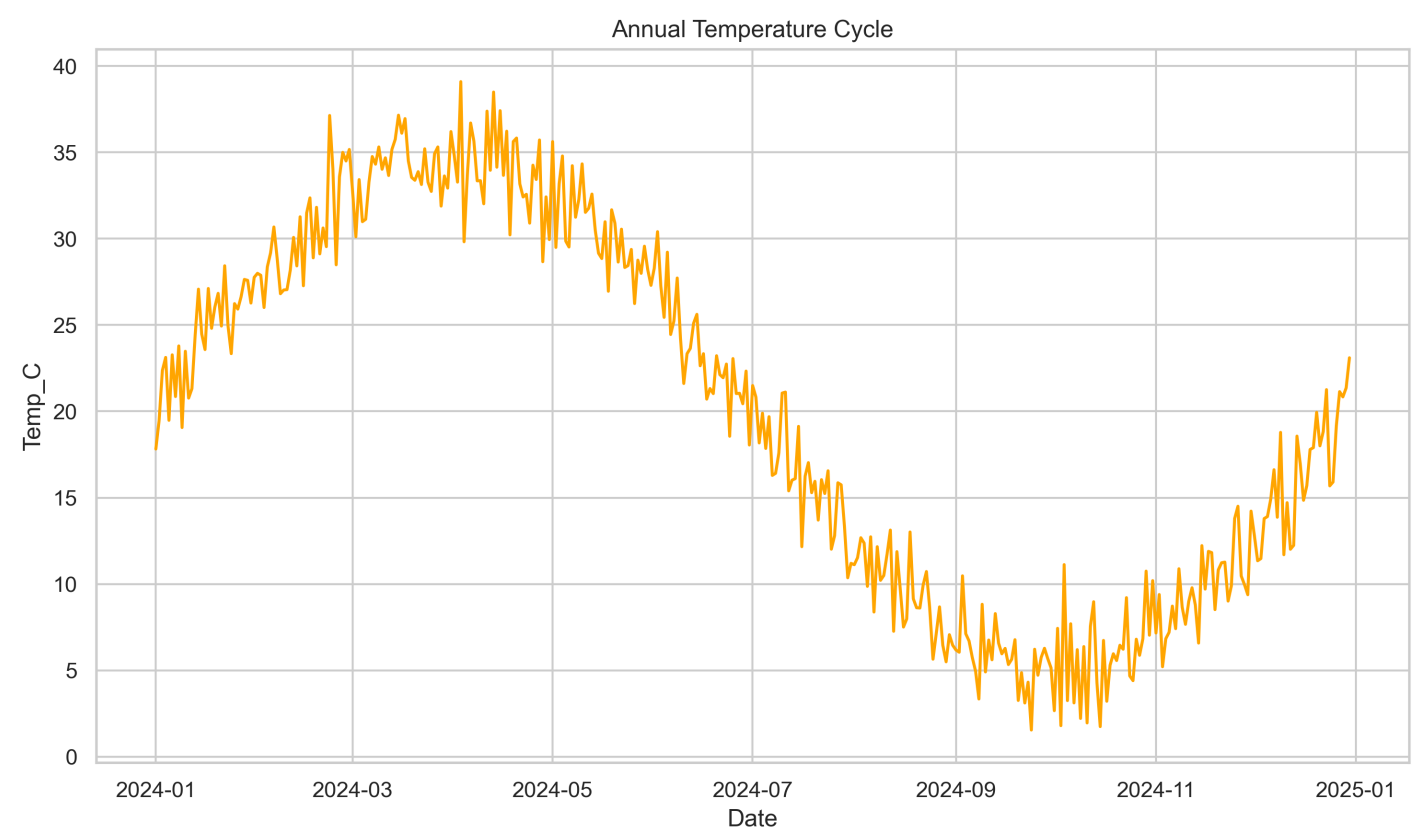


Fig 5.2: Climatic Correlations

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