#### Python for Finance Cookbook, 2nd edtion

Over 80 powerful recipes for effective financial data analysis

Stephen CUI<sup>1</sup>

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 $<sup>^{1}</sup>cuixuan Stephen@gmail.com\\$ 

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#### **Preface**

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#### **Acquiring Financial Data**

The first chapter of this book is dedicated to a very important (some may say the most important) part of any data science/quantitative finance project—gathering data. In line with the famous adage "garbage in, garbage out," we should strive to obtain data of the highest possible quality and then correctly preprocess it for later use with statistical and machine learning algorithms.

## **Data Preprocessing**

## **Visualizing Financial Time Series**

### **Exploring Financial Time Series Data**

## Technical Analysis and Building Interactive Dashboards

### **Time Series Analysis and Forecasting**

# **Machine Learning-Based Approaches to Time Series Forecasting**

#### **Multi-Factor Models**

## **Modeling Volatility with GARCH Class Models**

#### **Monte Carlo Simulations in Finance**

#### **Asset Allocation**

### **Backtesting Trading Strategies**

## **Applied Machine Learning: Identifying Credit Default**

# **Advanced Concepts for Machine Learning Projects**

## **Deep Learning in Finance**