

Practical Quantitative Finance With Asp Net Core And Angular

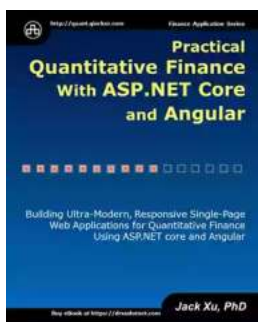
Are you interested in applying your finance knowledge to develop practical applications? Do you want to combine the power of Asp Net Core and Angular to create quantitative finance solutions? Look no further, as we dive into the world of practical quantitative finance with Asp Net Core and Angular.

to Quantitative Finance

Quantitative finance is a field that combines mathematical models, finance theory, and computer science to analyze financial markets, evaluate investments, and make data-driven decisions. It involves applying statistical and mathematical techniques to financial data to gain insights for investment strategies, risk management, and trading.

The Power of Asp Net Core and Angular

Asp Net Core is a powerful and flexible web framework that allows developers to build high-performance, scalable, and cross-platform web applications. It provides a robust architecture, built-in security features, and seamless integration with databases and other technologies.



Practical Quantitative Finance with ASP.NET Core and Angular: Building Ultra-Modern, Responsive Single-Page Web Applications for Quantitative Finance using ASP.NET Core and Angular

by Jack Xu([Print Replica] Kindle Edition)

★★★★★ 5 out of 5

Language : English

File size : 36653 KB

Screen Reader : Supported

Print length : 652 pages



Angular, on the other hand, is a popular JavaScript framework for building dynamic web applications. With Angular, developers can create interactive user interfaces, handle data binding, and implement complex functionalities with ease.

Practical Applications in Quantitative Finance

Now that we understand the fundamentals, let's explore some practical applications of quantitative finance using Asp Net Core and Angular:

1. Portfolio Management System

A portfolio management system allows investors to track and manage their investment portfolios. By combining Asp Net Core's server-side capabilities with Angular's client-side capabilities, developers can create a performant and user-friendly system to monitor investments, analyze portfolio performance, and generate reports.

2. Risk Management Tool

Risk management is a crucial aspect of financial decision-making. By utilizing Asp Net Core and Angular, developers can build a robust risk management tool that calculates risk metrics, such as Value-at-Risk (VaR), and provides insights on the potential downside of investment strategies.

3. Trading Platform

A trading platform allows users to buy and sell financial instruments. By leveraging Asp Net Core's real-time capabilities and Angular's responsive design,

developers can create a fast and intuitive trading platform that provides real-time market data, order execution, and portfolio monitoring.

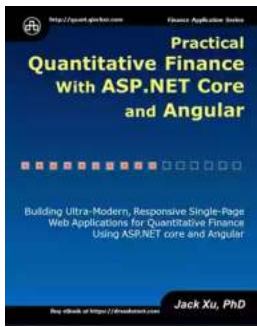
Benefits of Using Asp Net Core and Angular

By choosing Asp Net Core and Angular for your quantitative finance projects, you can enjoy the following benefits:

- **Scalability:** Asp Net Core allows your application to handle high traffic loads and scale horizontally.
- **Cross-platform:** Asp Net Core runs on Windows, Linux, and macOS, providing flexibility in deployment.
- **Modularity:** Angular's component-based architecture allows for modular development, making code maintenance and updates easier.
- **Real-time capabilities:** Asp Net Core's SignalR integration enables real-time updates and notifications for financial data.
- **Optimized performance:** Angular's Ahead-of-Time (AOT) compilation and Asp Net Core's performance optimizations ensure a smooth user experience.

, the combination of Asp Net Core and Angular offers an excellent platform for building practical quantitative finance applications. The power, flexibility, and scalability of these technologies make them ideal for handling complex financial data and creating user-friendly interfaces.

So, if you're ready to take your finance knowledge to the next level and develop practical applications for quantitative finance, don't hesitate to explore the world of Asp Net Core and Angular. The possibilities are endless!



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This book provides comprehensive details of developing ultra-modern, responsive single-page applications (SPA) for quantitative finance using ASP.NET Core and Angular. It pays special attention to create distributed web SPA applications and reusable libraries that can be directly used to solve real-world problems in quantitative finance. The book contains:

Overview of ASP.NET Core and Angular, which is necessary to create SPA for quantitative finance.

Step-by-step approaches to create a variety of Angular compatible real-time stock charts and technical indicators using ECharts and TA-Lib.

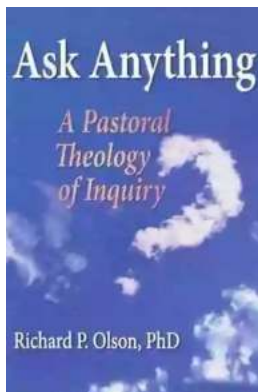
to access market data from online data sources using .NET Web API and Angular service, including EOD, intraday, real-time stock quotes, interest rates.

Detailed procedures to price equity options and fixed-income instruments using QuantLib, including European/American/Barrier/Bermudan options, bonds, CDS,

as well as related topics such as cash flows, term structures, yield curves, discount factors, and zero-coupon bonds.

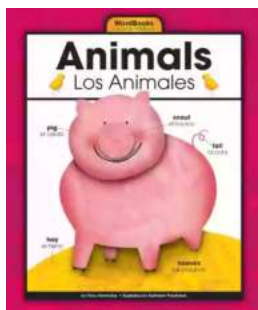
Detailed explanation to linear analysis and machine learning in finance, which covers linear regression, PCA, KNN, SVM, and neural networks.

In-depth descriptions of trading strategy development and backtesting for crossover and z-score based trading signals.



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