

# Summer Of **Quant**

## Courses

Three mini-courses, on the basics of some core concepts in Quantitative Finance

## Guest Lectures:

Guest lectures on careers in quant, as well as technical topics by industry professionals

# Overview

The three courses are:

- Time Series Analysis
- Financial Derivatives and Pricing
- Probability Primer

You can take up any and all courses. There will be an assignment towards the end of this program, roughly around the second week of July, based on which you'll be eligible for certificates. We'll let you know more about the evaluation plan soon.

The courses outline a brief introduction to a topic, however, you are encouraged to refer to the resources given as well.

Happy Learning!

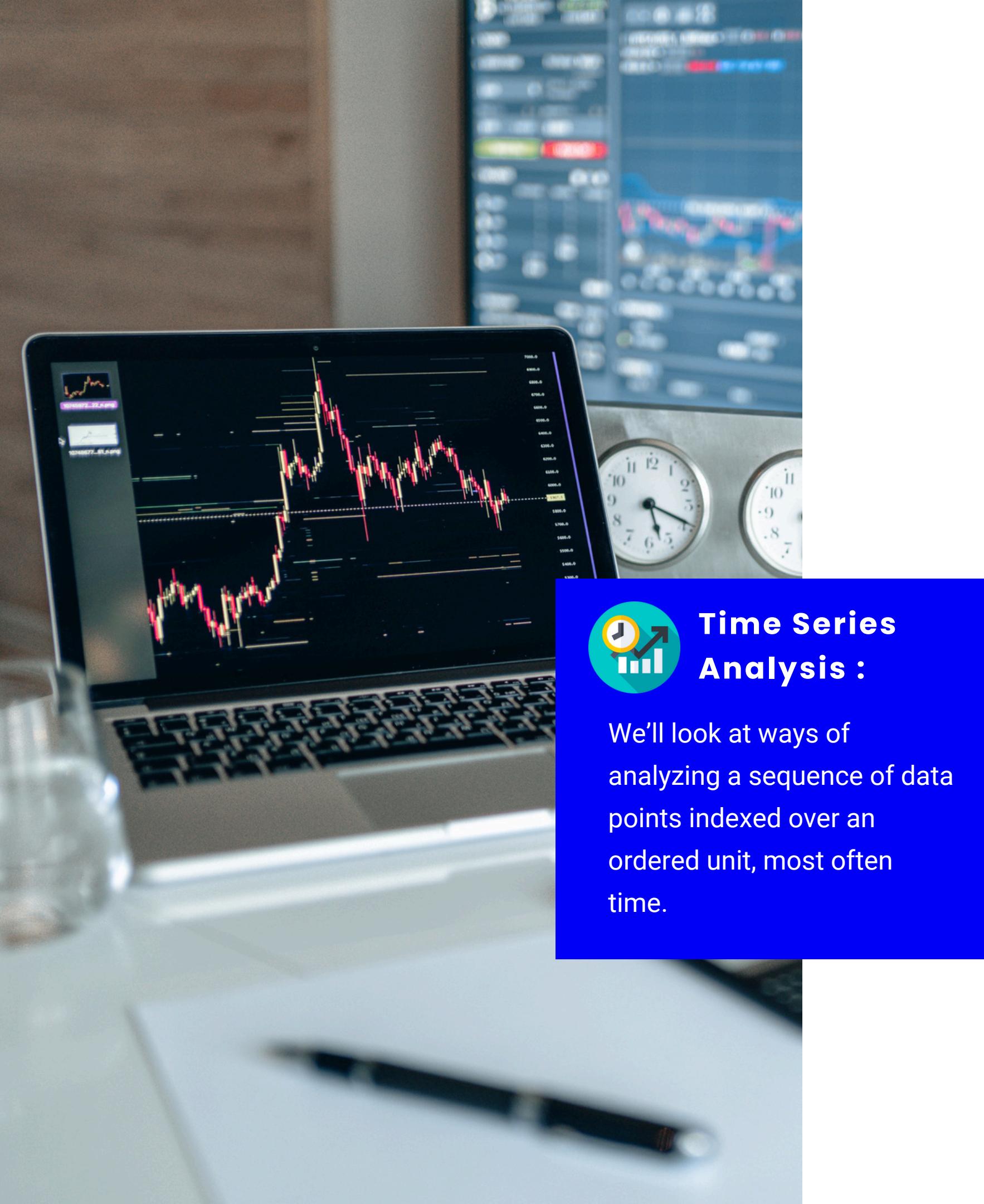


# Course Contents:

Find the course [here](#)

Here's a recommended timeline you should follow

Days	Module
1	1: Basics
2-3	2: Exploring Trends
4-5	3: AR, MA, and ARIMA
6-8	4: Machine Learning Methods
9-10	5: ARCH and GARCH
11-13	6: Extra Reading (VARMA and Facebook Prophet)



# Course Contents:

Find the course [here](#)

Here's a recommended timeline you should follow

Days	Topic
1-7	Derivatives
8-9	Arbitrage, Zero Coupon Bonds
10-13	Risk Neutral Pricing, Binomial Pricing Model
14-16	Multi-step Binomial Model
17-19	Black-Scholes Model
19-20	Monte Carlo methods for Option Pricing



# Course Contents:

Find the course [here](#)

Here's a recommended timeline you should follow

Days	Module
1-3	1: Introduction to Probability
4-7	2: Types of Random Variables
8-11	3: Stochastic Processes
12-14	4: Applications in Quant

Please also refer to the resources in 'Further Reading', such as the lecture notes of EE325: Probability and Stochastic Processes





# Contact Us

# Thank You!