# Udemy Course Curriculums

## Course ID: 5183242 Binary Trading Volume Spread Analysis (VSA)

### Section 01 - Introduction of VSA

01 - Introduction Of Volume Spread Analysis (VSA) Class 1

### Section 02 - Volume Spread Analysis (VSA) Class 2. All 3 Minutes Signals.

01 - Volume Spread Analysis (VSA) Class 2

02 - Volume Spread Analysis (VSA) Class 3

03 - Volume Spread Analysis (VSA) Class 4

### Section 03 - Market Direction and Wave Analysis

01 - Wave Analysis and How Market Change the Direction (VSA) Class 5.

### Section 04 - VSA Signals For 1 Minute Sureshot Trading

01 - Bullish Effort vs Bullish Result, Bearish Effort vs Bearish Result

02 - No Supply Bar And No Demand Bar Signal of VSA

### Section 05 - Buying Climax Start and End, Selling Climax Start and End

01 - Buying Climax Start and End Selling Climax Start and End

### Section 06 - Candlestick Wick Analysis.

01 - Candlesticks Wicks Analysis Class 9

02 - candlestick wicks analysis class 10

## Course ID: 3464482 Python for Financial Markets Analysis

### Section 01 - Importing Financial Markets Data

01 - Install python

02 - Install Anaconda

03 - Downloading and Importing finance data

Resource: CSV - Download and import.ipynb

Resource: TSLA.csv

04 - Installing required package

05 - Download OHLC price for single stock

Resource: Importing data via yfinance.ipynb

06 - Get specfic time range data

07 - Get Intra-day data

08 - Get Pre and Post Market Data

09 - Fundamentals, Dividends, Splits and News

Resource: Stock Information, dividends and Splits, and News .ipynb

10 - Splits and Dividends

Resource: Splits and Dividends.ipynb

11 - Import multiple stocks

Resource: Import multiple stocks.ipynb

12 - Export Data to CSV and Excel

Resource: Exporting data to CSV and Excel.ipynb

13 - From Dictionary > Series > Frame

Resource: From Dictionary > Series > Frame.ipynb

14 - Get Stock Earnings Information

Resource: Import Stock Earnings Infrormation.ipynb

15 - Get Stock Analyst Recommendations

Resource: Get Stock - Analyst Recommendations.ipynb

16 - Get Stock Options Data

Resource: Import Stock Options Data.ipynb

17 - Get Stock Shareholders

Resource: Get Stock - Shareholders.ipynb

18 - Import and normalize Financial Indexes

Resource: Import Financial Indexes.ipynb

19 - Import ETFs and Mutual Fund Data

Resource: Import ETFs and Funds Data.ipynb

20 - Import currency data

Resource: Import Currency Data.ipynb

21 - Import Cryptocurrencies

Resource: Get Cryptocurrency data.ipynb

22 - Import Treasury Yields Data

Resource: Import Treasury Yields Data.ipynb

23 - Streaming real-time data

Resource: Streaming Real-time data.ipynb

### Section 02 - Python Basic 101

01 - Data types and Numbers

Resource: Python Basic 101.ipynb

02 - Variables

03 - Integers and Float

04 - Strings

05 - Lists

06 - Dictionaries

07 - For loops

08 - If conditions

09 - Functions

### Section 03 - Creating Interactive Financial Charts

01 - Explore Plotly and cufflinks

Resource: Creating Interactive Financial Charts.ipynb

02 - Customizing charts

03 - Spread Charts

04 - Interactive Histogram

05 - Candle and OHLC Charts

06 - Technical Indicators : SMA and Bollinger Bands

07 - Adding Volume and MACD Indicators

08 - Using annotation to tell the story

Resource: Using annotation to tell the story.ipynb

09 - Create an interactive candle chart + technical indicators

Resource: Create an interactive candle chart.ipynb

### Section 04 - Time Series Analysis

01 - The power of index()

Resource: The power of index().ipynb

02 - Handling missing data in time series

Resource: Handling missing data in time series.ipynb

03 - Creating new data frame and using reindex

04 - Using bfill and ffill methods

05 - Resample time series

Resource: Resample time series data.ipynb

06 - Timezone travel with time series

Resource: Timezone travel with time series.ipynb

07 - Shifting dates

Resource: Shifting dates.ipynb

08 - Find largest and smallest numbers

Resource: Find largest and smallest.ipynb

09 - Pandas profiling library

Resource: Pandas Profiling Library.ipynb

### Section 05 - Translating SQL style queries

01 - Calculate Boolean statistics

02 - Construct multiple boolean conditions

03 - Translate SQL where clauses

### Section 06 - Rate of Returns Analysis

01 - Calculate rate of returns

Resource: Rate of Returns.ipynb

02 - Log returns of a security

03 - Rate of return for a portfolio

04 - Rate of returns for major indices

05 - Calculate Annualize Returns

Resource: Calculate Annualized Returns.ipynb

### Section 07 - Exploring Risk Analysis

01 - Calculating a security risk

### Section 08 - Creating weighted indexes

01 - Prepare data, normalize data

02 - Calculate Price Weighted Index

03 - Calculate weights of constituents over time

04 - Calculate Equal Weighted Index

### Section 09 - Point and figure charts

01 - Create point and figure charts

Resource: Point and Figure Chart .ipynb

Resource: pnf charts

Resource: renko charts

### Section 10 - Quick Stock Analysis

01 - Exploring Rolling Mean, Returns Deviations

Resource: Quick Stock Analysis.ipynb

02 - Exploring Peer Analysis

03 - Returns Rates and Risk with heat map

04 - Find best and worst returns by months

Resource: Find\_Best\_and\_Worst\_Returns\_By\_Months.ipynb

### Section 11 - Explore Stock Statistics

01 - Calculate SMA on the fly

Resource: Exploring Stock Stats.ipynb

02 - Calculate technical indicators with custom values

03 - Calculate custom up and down days

04 - Min, max and delta changes

### Section 12 - Crypto vs Stock Market correlations

01 - Is crypto market is correlation to stock market?

Resource: Is Crypto is correlated to Stock Market?.ipynb

### Section 13 - Exploring Technical Indicators

01 - Introduction to technical indicators

Resource: Technical Indicators Analysis.ipynb

02 - Simple Moving Averages (SMA)

03 - Exponential Moving Averages (EMA)

04 - Bollinger Bands

05 - MACD

06 - Create technical indicator manually - MACD

07 - Create technical indicator manually - MACD - Part 2

08 - Relative Strength Index (RSI)

09 - RSI - Overbought / Oversold Signals

10 - Calculate pivot points

Resource: Calculate pivot points.ipynb

11 - Getting 40+ technical indicators...

Resource: Get 40+ Technical indicators.ipynb

### Section 14 - Technical Indicators Signals

01 - Simple Moving Averages - Setting up data, and strategy

Resource: Generating Buy Sell Signals via SMAs.ipynb

02 - Visualization

03 - SMA Signals - Avoid backtesting bias

Resource: SMA Signals - Avoid backtesting bias.ipynb

04 - EMA - Double Crossover Signals

Resource: EMA Crossover Signals.ipynb

05 - MACD Signals

Resource: MACD Signals.ipynb

06 - RSI Signals

Resource: RSI Signals.ipynb

07 - Bollinger bands signals

Resource: Bollinger Bands Signals.ipynb

### Section 15 - Squeeze Momentum Indicator

01 - Importing packages

Resource: indicator info

Resource: Squeeze Momentum Indicator - Popular TradingView Indicator.ipynb

02 - Calculate Bollinger Bands and True Range

03 - Calculate True Range and KC Channels

04 - Calculate momentum - bar value

05 - Calculate Squeeze on/off

06 - Show visualization

### Section 16 - Finding Higher High and Lower Low

01 - Finding Ups and Downs

Resource: Higher High and Lower Low.ipynb

02 - Find Higher High and Lower Low

03 - Z-Score and Ranking

Resource: Z-Score and ranking analysis.ipynb

04 - Z-Score and Ranking - Part 2

### Section 17 - Portfolio Analysis

01 - Portfolio performance numbers

Resource: portfolio\_analytics\_via\_pyfolio.py

### Section 18 - Algo Trading - Buy Low, Sell High Strategy

01 - A simple trading strategy

Resource: A Simple Trading System.ipynb

02 - Setting up, and calculating standard deviations

Resource: Algorithmic Trading - BUY LOW SELL HIGH strategy with back-testing.ipynb

03 - Event driven testing

### Section 19 - Creating a stock screener

01 - Setting up the data

Resource: Stock Screener.ipynb

02 - Calculating indicators

03 - Calculating conditions

04 - Applying conditions

### Section 20 - Create interactive data apps

01 - Create a market dashboard application with streamlit

Resource: app.py

### Section 21 - Creating a candlestick pattern web screener

01 - Setup package and flask web server

Resource: nasdaq100\_companies.csv

Resource: patterns.py

Resource: app.py

Resource: index.html

02 - Setup dynamic candlestick patterns dropdown

03 - Prepare market data

04 - Reading stock data into dataframes

05 - Apply a candlestick pattern

06 - Dynamic pattern recognitions

07 - Display stocks with patterns

08 - Display signals

### Section 22 - Thank You

01 - Your feedback is very valuable

02 - Bonus Lecture

## Course ID: 4069268 The Advanced SQL Server Masterclass For Data Analysis

### Section 01 - Before we start coding...

01 - Introduction

02 - IMPORTANT NOTE: PLEASE READ

03 - Installing SQL Server 2019 Express

04 - Installing SQL Server Management Studio

05 - Downloading the AdventureWorks Sample Database

06 - Course Environment Walkthrough

### Section 02 - Advanced Analysis With Window Functions

01 - Introducing Window Functions With OVER

Resource: OVER - Example Code.sql

02 - Introducing Window Functions With OVER - Exercises

Resource: OVER - Exercise SOLUTIONS.sql

03 - PARTITION BY

Resource: PARTITION BY - Example Code.sql

04 - PARTITION BY - Exercises

Resource: PARTITION BY - Exercise SOLUTIONS.sql

05 - ROW\_NUMBER

Resource: ROW\_NUMBER.mp4

Resource: ROW\_NUMBER - Example Code.sql

06 - ROW\_NUMBER - Exercises

Resource: ROW\_NUMBER - Exercise SOLUTIONS.sql

07 - RANK and DENSE\_RANK

Resource: RANK and DENSE\_RANK - Example Code.sql

08 - RANK and DENSE\_RANK - Exercises

Resource: RANK and DENSE\_RANK - Exercise SOLUTIONS.sql

09 - LEAD and LAG

Resource: LEAD and LAG - Example Code.sql

10 - LEAD and LAG - Exercises

Resource: LEAD and LAG - Exercise SOLUTIONS.sql

11 - FIRST\_VALUE

Resource: FIRST\_VALUE - Example Code.sql

12 - FIRST\_VALUE - Exercises

Resource: FIRST\_VALUE - Exercise SOLUTIONS.sql

13 - Introducing Subqueries

Resource: Subqueries - Example Code.sql

14 - Introducing Subqueries - Exercises

Resource: Subqueries - Exercise Solutions.sql

15 - ROWS BETWEEN

Resource: ROWS BETWEEN - Example Code.sql

16 - ROWS BETWEEN - Exercises

Resource: ROWS BETWEEN - Exercise SOLUTIONS.sql

### Section 03 - Subqueries

01 - Scalar Subqueries

Resource: Scalar Subqueries - Example Code.sql

02 - Scalar Subqueries - Exercises

Resource: Scalar Subqueries - Exercise SOLUTIONS.sql

03 - Correlated Subqueries

Resource: Correlated Subqueries - Example Code.sql

04 - Correlated Subqueries - Exercises

Resource: Correlated Subqueries - Exercise SOLUTIONS.sql

05 - EXISTS

Resource: EXISTS - Example Code.sql

06 - EXISTS - Exercises

Resource: EXISTS - Exercise SOLUTIONS.sql

07 - FOR XML PATH With STUFF

Resource: FOR XML PATH With STUFF - Example Code.sql

08 - FOR XML PATH With STUFF - Exercises

Resource: FOR XML PATH With STUFF - Exercise SOLUTIONS.sql

09 - PIVOT - Part 1

Resource: PIVOT Part 1 - Example Code.sql

10 - PIVOT - Part 2

Resource: PIVOT Part 2 - Example Code.sql

11 - PIVOT - Exercises

Resource: PIVOT - Exercise SOLUTIONS.sql

### Section 04 - Common Table Expressions (CTEs)

01 - CTEs - Part 1

02 - CTEs - Part 2

Resource: CTEs - Example Code.sql

03 - CTEs - Exercise

Resource: CTEs - Exercise Starter Code.sql

Resource: CTEs - Exercise SOLUTION.sql

04 - Recursive CTEs

Resource: Recursive CTEs - Example Code.sql

05 - Recursive CTEs - Exercises

Resource: Recursive CTEs - Exercise SOLUTIONS.sql

### Section 05 - Temp Tables

01 - Temp Tables - Part 1

02 - Temp Tables - Part 2

Resource: Temp Tables - Example Code.sql

03 - Temp Tables - Exercises

Resource: Temp Tables - Exercise SOLUTION.sql

04 - CREATE and INSERT

Resource: CREATE and INSERT - Example Code.sql

05 - CREATE and INSERT - Exercise

Resource: CREATE and INSERT - Exercise SOLUTION.sql

06 - TRUNCATE - Part 1

07 - TRUNCATE - Part 2

Resource: TRUNCATE - Example Code.sql

08 - TRUNCATE - Exercise

Resource: TRUNCATE - Exercise SOLUTION.sql

09 - UPDATE - Part 1

10 - UPDATE - Part 2

Resource: Update - Example Code.sql

11 - UPDATE - Exercise

Resource: Update - Exercise Starter Code.sql

Resource: Update - Exercise SOLUTION.sql

12 - DELETE

Resource: DELETE - Example Code.sql

### Section 06 - Optimization

01 - Optimizing With UPDATE - Part 1

02 - Optimizing With UPDATE - Part 2

Resource: Optimizing With UPDATE - Example Code.sql

03 - Optimizing With UPDATE - Exercise

Resource: Optimizing With UPDATE - Exercise Starter Code.sql

Resource: Optimizing With UPDATE - Exercise SOLUTION.sql

04 - An Improved EXISTS With UPDATE

Resource: An Improved EXISTS With UPDATE - Example Code.sql

05 - An Improved EXISTS With UPDATE - Exercise

Resource: An Improved EXISTS With UPDATE - Exercise Starter Code.sql

Resource: An Improved EXISTS With UPDATE - Exercise SOLUTION.sql

06 - Introducing Indexes

Resource: Indexes.pdf

07 - Optimizing With Indexes - Example

Resource: Indexes - Example Code.sql

08 - Optimizing With Indexes - Exercise

Resource: Indexes - Exercise SOLUTION.sql

Resource: Indexes - Exercise Starter Code.sql

09 - Lookup Tables - Part 1

Resource: Lookup Tables Part One - Example Code.sql

10 - Lookup Tables - Part 2

Resource: Lookup Tables Part Two - Example Code.sql

11 - Lookup Tables - Exercises

Resource: Lookup Tables - Exercise SOLUTIONS.sql

12 - Views

Resource: Views - Example Code.sql

13 - Views - Exercises

Resource: Views - Exercise SOLUTIONS.sql

### Section 07 - Programming SQL

01 - Variables - Part 1

Resource: Variables Part 1 - Example Code.sql

02 - Variables - Exercise 1

Resource: Variables Part 1 - Exercise Starter Code.sql

Resource: Variables Part 1 - Exercise SOLUTION.sql

03 - Variables - Part 2

Resource: Variables Part 2 - Example Code.sql

04 - Variables - Exercise 2

Resource: Variables Part 2 - Exercise SOLUTION.sql

05 - Introducing User Defined Functions

Resource: Introducing User Defined Functions - Example Code.sql

06 - NOTE TO STUDENTS

07 - Making Functions Flexible With Parameters

Resource: User Defined Functions With Parameters - Example Code.sql

08 - User Defined Functions - Exercises

Resource: User Defined Functions - Exercise SOLUTIONS.sql

09 - Table-Valued Functions

Resource: TVFs - Example Code.sql

10 - Table-Valued Functions - Exercise

Resource: TVFs - Exercise SOLUTION.sql

11 - Stored Procedures

Resource: Stored Procedures - Example Code.sql

12 - Stored Procedures - Exercise

Resource: Stored Procedures - Exercise SOLUTION.sql

13 - Control Flow With IF Statements

Resource: Control Flow With IF Statements - Example Code.sql

14 - Control Flow With IF Statements - Exercise

Resource: Control Flow With IF Statements - Exercise SOLUTION.sql

15 - Using Multiple IF Statements

Resource: Using Multiple IF Statements - Example Code.sql

16 - Using Multiple IF Statements - Exercise

Resource: Using Multiple IF Statements - Exercise SOLUTION.sql

17 - Dynamic SQL - Part 1

Resource: Dynamic SQL Part 1 - Example Code.sql

18 - Dynamic SQL - Part 2

Resource: Dynamic SQL Part 2 - Example Code.sql

19 - Dynamic SQL - Exercises

Resource: Dynamic SQL - Exercise SOLUTIONS.sql

## Course ID: 2186622 Python GUI Programming Using Tkinter and SQLite3

### Section 01 - Course Introduction

01 - Course Introduction

02 - Welcome - Lets Get Started!

### Section 02 - CoinMarketCap API

01 - What is API?

02 - Working with CoinMarketCap API

Resource: Registered CoinMarketCap API Link Structure

03 - API Format

Resource: JSON Formatter

### Section 03 - Working with Data

01 - Fetching API Data

02 - Extracting API and Coin Data

### Section 04 - Working With Portfolio

01 - Creating Coin List & Understanding Portfolio

02 - Creating Portfolio Dictionary

03 - Calculating Profit and Loss

Resource: Repl Source Code

### Section 05 - Tkinter

01 - GUI Introduction - Graphical User Interface

02 - Understanding 3 Steps Tkinter Working

03 - Tkinter Main Window and Labels

### Section 06 - Application Formatting

01 - Adding Header

02 - Adding More Data

03 - Improving User Interface

04 - Color Indication For Profit and Loss

05 - Adding Update Button

### Section 07 - Converting .PY File to .EXE File

01 - Creating Executable App (.exe file)

### Section 08 - Database Basics - SQLite3

01 - Databases - SQL vs SQLite3

02 - Introduction to SQLite3 and its Workings

03 - Creating Table | Working with DB Browser

Resource: DB Browser For SQLite

Resource: SQLite Data Types

04 - Insert Values - Databases

05 - Update Values - Databases

06 - Fetching Data From Database

07 - Delete Data - Database

08 - Creating Functions For Operation - Database

### Section 09 - Connecting Database With Tkinter Application

01 - Connecting With Database

02 - Fetching Data From Database

### Section 10 - Modifying Application

01 - Modifying Current Application

### Section 11 - Adding Insert, Update, Delete Buttons

01 - Adding "Add Coin" Button

02 - Adding "Update Coin" - "Delete Coin" Button

### Section 12 - Clearing Tkinter Window

01 - Solving Multiple Layer Issue

### Section 13 - Adding Notification and Navigation System

01 - Adding Notification System - Popup Box

02 - Adding Navigation System - Menu Bar

Resource: Complete Source Code

Resource: Complete Source Code - Github

### Section 14 - Thank You For Being Here!

01 - Thank You For Being Here!

### Section 15 - Bonus

01 - Bonus - Complete Roadmap For Future

## Course ID: 2847630 Working with Binary Data in Python 3

### Section 01 - Introduction

01 - Course overview

### Section 02 - Basics of bytes

01 - The Bytes type

Resource: bytes\_type.py

02 - Formatting output

Resource: format\_output.py

03 - The Bytearray type

Resource: bytesarray\_example.py

04 - The BytesIO class

Resource: bytesio\_example.py

### Section 03 - Bitwise Operations

01 - Overview of Bitwise Operations

Resource: Bitwise Operators.pdf

Resource: bitwise\_operators.py

02 - AND Operation

03 - OR Operation

04 - XOR Operation

05 - Ones Complement

06 - Bit Shifting

### Section 04 - Conversion

01 - Introduction

Resource: conversion.py

02 - Convert a large integer to bytes

03 - Convert a list of small integers to bytes

04 - Convert a binary string to a byte

05 - Convert bytes to an integer

06 - Convert hexadecimal strings

### Section 05 - Working with files

01 - Write bytes to a file

Resource: file\_examples.py

02 - Get metadata about a file

03 - Read Bytes from a File

04 - Seek a position in a file

### Section 06 - Struct packing and unpacking

01 - What is struct packing?

Resource: Struct Packing.pptx

Resource: struct\_examples.py

02 - Example of struct packing

03 - Example of unpacking a struct

### Section 07 - Encoding

01 - Intro to Encoding

Resource: encoding\_examples.py

02 - ASCII encoding

03 - UTF-8 encoding

04 - Base64 encoding

### Section 08 - Code Examples

01 - Code examples

Resource: create\_stego\_zip\_jpg.py

Resource: diff.py

Resource: extract\_pngs.py

Resource: find\_ascii\_in\_binary.py

Resource: find\_ascii\_in\_binary.py

Resource: is\_jpeg.py

Resource: read\_boot\_sector.py

### Section 09 - Conclusion

01 - Course recap

## Course ID: 3118336 Advance Tally Prime + GST + Accounting - Certificate Course

### Section 01 - Theoretical Accounting or Basic Concepts of Accounting

01 - Introduction to Accounting

02 - Golden Rules of Accounting with Manual Journal Entries via game

03 - Understanding & preparing Ledgers Manually

04 - Understanding & Preparing Trial Balance, Profit & Loss & Balance Sheet manually

05 - Understanding varied Financial Year in Accounting world

06 - How to use this Course

### Section 02 - Let's Start Tally.Erp9 from Start installing to Advance Transaction

01 - Download Tally Erp9 software from here..

### Section 03 - Steps towards Computeised Accounting using Tally Erp9 with GST

01 - Understanding Keyboard Conventions in Tally Erp9 with GST

02 - Company Creation, Alteration, Deletion in Tally Erp9

03 - User Interface of Tally Software

04 - Posting Opening balances in Tally.ERP 9

05 - Working on Ledgers and Groups in Tally .Erp9 with GST

06 - Understanding Groups of Accounts with Balance Sheet

### Section 04 - Time to Record day to day transaction in Tally Erp9

01 - Recording Purchase Transaction

02 - Sales Transaction

03 - Recording Receipt

04 - Recording Credit Sale & Purchase transactions

05 - Recording Contra Entries

06 - Recording Transactions in Journal Voucher

07 - Recording other misc. transactions & Analyzing reports

08 - Analyzing Trial Balance, Profit & Loss A/c, Balance Sheet & other reports

09 - Assignment

### Section 05 - Integrate Accounts and Inventory

01 - Setting the Features to Integrate Accounts with Inventory

02 - Creating Stock Items & Stock Units

03 - Recording sale and purchase transaction with stock

04 - Entering Opening Business Stock in Tally.ERP9

05 - Effects of Stock in Stock Reports and other Statements

### Section 06 - Understanding and Recording GST in Tally Erp9

01 - Overview of GST

02 - Defining & Recording GST Invoices at Company Level

03 - Defining & Recording GST Invoices at Stock Group Level

04 - Defining & Recording GST Invoices at Stock Item Level

05 - Understanding GST Returns

06 - Recording Inter State Sales to Unregistered Dealer (B2C) & Effects on GSTR1

07 - Recording Sales to Consumer (B2C)

08 - Concept of Change in Tax Rate

09 - GST Based on Item Value

10 - Assignment 2

11 - Assignment 3

### Section 07 - Advance GST Transactions in Tally Erp9 with GST

01 - Recording & Generating Credit Note Interstate for Registered Dealer

02 - Credit Note for Unregistered dealer with GST Returns

03 - Debit Note with GST & GST returns

04 - Recording Transactions of Zero Rated Goods

05 - Recording Exempted Export Transactions in GST

06 - Advance Received towards supply of Goods (PART 1)

07 - GST against advance received (PART 2)

08 - Set-Off-Tax Liablity towards Advance Received and Adjustment Entries (PART 3)

09 - GST Sales to SEZ (Special Economic Zone)

### Section 08 - GST Transactions for Service Organisation in Tally Erp9 with GST

01 - Supply of Services with GST & GST returns in Tally Erp9 with GST

02 - Recording Import of Services with Adjustment Entries & returns

03 - Availing Input Tax Credit

### Section 09 - RCM - Reverse Charge Mechanism

01 - Understanding the concept of RCM

02 - Purchase from URD (unregistered dealer) under RCM

03 - Service Received from Goods Transport Agency(GTA) under RCM

### Section 10 - E-way

01 - Understanding the concept of E-way Bill

02 - Handling E-way Bill transactions in Tally.ERP9

### Section 11 - Composition Scheme

01 - Introduction to Composition Scheme & Recording Sales & Purchase GST TransactionS

02 - GSTR4 for Composition Dealers

### Section 12 - Managing Manufacturing Transactions in Tally .Erp9

01 - Manufacturing Entries using Bills of Material

### Section 13 - TDS - Tax Deducted at Source in Tally erp9

01 - Understanding the term TDS

02 - Configuring the settings & creating masters for TDS transaction in Tally.Erp9

03 - Recording Expenses & TDS deduction in Tally.ERP 9

04 - TDS Transaction on Advance payment

05 - Payment of TDS & TDS reports

### Section 14 - Banking - Bank Reconciliation in Tally .Erp9

01 - Introduction to Bank Reconciliation in Tally.Erp9

02 - Setting Cheque book in Tally.ERP for Bank A/C

03 - Opening BRS- Unreconciled transactions of last year in Tally.Erp9

04 - Recording Bank Related Transaction & Finalizing BRS in Tally.Erp9

### Section 15 - Payroll in Tally erp9

01 - Introduction to Payroll in Tally Erp9

02 - Enabling Payroll & Creating Masters in Tally.ERP 9

03 - Recording Attendance & Overtime details in Tally.ERP 9

04 - Posting Payroll Vouchers in Tally.ERP 9

05 - Analyzing Payroll reports in Tally.ERP 9

### Section 16 - Cost Center, Group and Categories in Tally.Erp9

01 - Creating Cost Center using pre-defined cost center in Tally.ERP9

02 - Cost centre groups & cost categories in Tally.ERP9

### Section 17 - Backup and Restore of Data in Tally.Erp9

01 - Manual and Auto Back, Manual and auto restore in Tally.erp9

### Section 18 - MIS Reports for Managerial Level in Tally.Erp9

01 - MIS

### Section 19 - Let's Start Tally Prime With GST Complete Course (Latest Version)

01 - Download and Install Latest Tally Prime Software (Free)

Resource: Download Tally Prime Latest Software from Given Link for Free

### Section 20 - Working in Tally Prime Latest Software

01 - KeyBoard Shortcuts in Tally Prime with GST

02 - Company Creation in Tally Prime with GST

03 - Multiple Available Methods to work in Tally Prime

04 - Working with Existing Business Entries in Tally Prime with GST

05 - Working with Ledgers and Groups in Tally Prime with GST

06 - Understanding Grouping of Accounts in Tally Prime

### Section 21 - Record Daily Transaction in Tally Prime with GST

01 - Types of Vouchers in Tally Prime

02 - Purchase Entry in Tally Prime

03 - Sales Entry in Tally Prime

04 - Receipt Entry in Tally Prime

05 - Credit Purchase and Credit Sales Entry in Tally Prime

06 - Contra Entries in Tally Prime

07 - Journal Entries in Tally Prime

08 - Other Day To Day Transaction or Entries in Tally Prime

09 - Reports - Balance Sheet, Trial Balance, Profit & Loss in Tally Prime

### Section 22 - Working with Stock in Tally Prime with GST

01 - Activate the Inventory Feature in Tally Prime with GST

02 - Create Stock Items & Measurement Units in Tally Prime with GST

03 - Sale/Purchase Billing/Invoicing in Tally Prime with GST

04 - Opening/Existing Stock Items in Tally Prime

05 - Stock Reports - Tally Prime

### Section 23 - Let's Start working with GST for Regular Dealer in Tally Prime

01 - Basic Understanding of GST

02 - Set Features & Configuration of GST New Company and Set Tax at Company Level

03 - Set GST at Stock Group Level in Tally Prime

04 - Set GST at Stock Item Level in Tally Prime with GST

05 - Understand GST Returns in Tally Prime

06 - B2C- Interstate sales to Unregistered & its effects on GSTR-1

07 - B2C - Sales to Consumer in Tally Prime

08 - B2C (Large) - Sales to Consumer and its Effects on GST Reports in Tally Prime

09 - Change in Tax Rate in Tally Prime with GST

10 - GST Based on Item value in Tally Prime

### Section 24 - Advance GST Transactions in Tally Prime with GST and GST Reports

01 - Generating Credit Note Interstate for Registered & Unregistered Dealer

02 - Debit Note with GST & GST returns in Tally Prime Software

03 - Zero Rated Goods in Tally Prime Software and its effects on GST Reports

04 - Recording Exempted Export Transactions in GST in Tally Prime Software

05 - Advance Received towards supply of Goods (PART 1) in Tally Prime Software

06 - GST against advance received (PART 2) in Tally Prime Software

07 - Set-Off-Tax Liability towards Advance Received and Adjustment Entries (PART 3)

08 - GST Sales to SEZ (Special Economic Zone) in Tally Prime Software

### Section 25 - GST Transactions for Service Organisation in Tally Prime with GST

01 - Supply of Services with GST & GST returns in Tally Prime Software

02 - Recording Import of Services with Adjustment Entries & returns in Tally Prime

03 - Availing Input Tax Credit & Payment of GST in Tally Prime Software

### Section 26 - Order Processing in Tally Prime

01 - Creating Purchase Order & Sales Order in Tally Prime Software

02 - Generating Receipt Note & Delivery Note in Tally Prime Software

03 - Generating Purchase & Sale Invoice in respect to above orders in Tally Prime

04 - Creating Purchase Return & Sale return in respect to above orders in Tally Prime

### Section 27 - RCM- Reverse Charge Mechanism in Tally Prime Software

01 - Understanding the concept of RCM

02 - Purchase from URD (unregistered dealer) under RCM in Tally Prime Software

### Section 28 - E-way Bill in Tally Prime

01 - Understanding the concept of E-way Bill

02 - Handling E-way Bill transactions in Tally Prime Software

### Section 29 - Composition Scheme in Tally Prime Software

01 - Introduction to Composition Scheme & Recording Sales & Purchase GST Transactions

02 - GSTR4 Report in Composition Dealers in Tally Prime Software

### Section 30 - TDS - Tax Deducted at Source in Tally Prime Software

01 - Understanding the term TDS

02 - Configuring the settings & creating masters for TDS transaction in Tally Prime

03 - Recording Expenses & TDS deduction in Tally Prime Software

04 - TDS Transaction on Advance payment in Tally Prime Software

05 - Payment of TDS & TDS reports in Tally Prime Software

### Section 31 - Banking - Bank Reconciliation in Tally Prime Software

01 - Introduction to Bank Reconciliation

02 - Setting Cheque book in Tally for Bank A/C in Tally Prime Software

03 - Opening BRS- Unreconciled transactions of last year in Tally Prime Software

04 - Recording Bank Related Transaction & Finalizing BRS in Tally Prime Software

### Section 32 - Payroll concepts and working in Tally Prime Software

01 - Concepts of Payroll

02 - Enabling Payroll & Creating Masters in Tally Prime Software

03 - Recording Attendance & Overtime details in Tally Prime Software

04 - Posting Payroll Vouchers in Tally Prime Software

05 - Analyzing Payroll reports in Tally Prime Software

### Section 33 - Cost Center, Group and Categories in Tally Prime

01 - Creating Cost Center using pre-defined cost center in Tally Prime Software

02 - Cost centre groups & cost categories in Tally Prime Software

### Section 34 - Collect your certificate

01 - Collect your certificate

## Course ID: 3195180 GST Returns Course (Live Working) : Get Certified Today

### Section 01 - GST structure, Types of returns, Due dates, Documentation & process of filing.

01 - Introduction to GST Structure.

02 - Documentation and Process required for GST Registration

03 - GST returns and due dates for filing

### Section 02 - Register for PAN CARD, TAN NO. & DIGITAL SIGNATURE CERTIFICATE on Govt. website.

01 - Online Application for PAN

02 - Online Application for TAN

03 - Registering for Digital Signature Certificate & INSTALLING emSigner

### Section 03 - GST Registration on GST Govt Website

01 - Online GST Registration for Normal Taxpayer

02 - Online GST Registration for Practitioner's

### Section 04 - Filing of New Returns (Beta/Trial) on Govt website

01 - New Returns Dashboard - Managing Profile & changing return type

02 - Form GST ANX-1 (Details of outward ,imports & inward supplies ATTRACTING RCM)

03 - Form GST ANX-2 (Details of auto drafted inward supplies)

04 - Form GST RET 1 - Filing of Return by Normal Taxpayers (Monthly)

05 - Form GST RET 2 - Filing of Return by Sahaj Taxpayers (Quarterly)

06 - Form GST RET 3 - Filing of Return by Sugam Taxpayers (Quarterly)

### Section 05 - Filing GSTR 1, making payment and importing E-WAY BILL on website

01 - Filing GSTR-1 & Importing e-Way Bill Data in GSTR-1 (Part 1)

02 - Filing GSTR-1 & Importing e-Way Bill Data in GSTR-1 (Part 2)

03 - Filing GSTR-1 & Importing e-Way Bill Data in GSTR-1 (Part 3)

04 - Downloading, Installing and Uploading invoices in GSTR-1/ Taking Actions in GSTR

### Section 06 - Filing Returns GSTR-2 to GSTR-11 on Govt website.

01 - Viewing GSTR-2A

02 - Filing GSTR-3B

03 - Filing GSTR-3B Nil Return

04 - Creating and Filing details in Form GST CMP-08

05 - Viewing GSTR-4A

06 - Filing GSTR-5

07 - Filing GSTR-5A

08 - Filing GSTR-6

09 - GSTR-6A

10 - Filing GSTR-7

11 - GSTR-7A

12 - Filing GSTR-8

13 - Filing GSTR-9

14 - Filing GSTR-10

15 - Filing GSTR-11

### Section 07 - Returns Offline Utility Tools on website.

01 - GSTR3B, GSTR 4, GSTR6,GSTR7, GSTR8, GSTR9,9A,9C GSTR8, GSTR10, GSTR11 by offline

02 - Tracking Return Status

03 - Viewing e-Filed Returns

### Section 08 - TDS/ TCS and INPUT TAX CREDIT adjustments on Govt website

01 - Comparison of Liability Declared and ITC Claimed

02 - Filing TDS and TCS Credit Received

03 - Filing Form GST ITC-01 - Declaration for Claim of ITC on New GST Registration

### Section 09 - Composition Levy on Govt website

01 - Form CMP-02 Opt for composition scheme

02 - Form CMP-04 Withdrawal from composition scheme

03 - Form CMP-03 Intimation of stock details by migrated taxpayers

### Section 10 - "Registration Services" on Govt website.

01 - Amendment, Tracking & cancellation of GST Registration

### Section 11 - "Refunds Services" on Govt website

01 - Refund pre-application , viewing submitted app., tracking refund status on GSTN

### Section 12 - GST Law, GST Act and Ammendments on Central Govt. Portal.

01 - Accessing Act, Rule, Amendment, Notifications, etc. relating to GST Law

### Section 13 - "Searching Taxpayer Services" on GST Govt website

01 - Search by GSTIN, UIN, PAN, Composition Taxpayer.

### Section 14 - Bonus Lecture

01 - Bonus Lecture

## Course ID: 3465656 TallyPrime+GST+Payroll+IncomeTax+TDS+TCS+MSExcel (ComboPack)

### Section 01 - S1 : Basics of Commerce, Accounting

01 - S1.1 What is Commerce

Resource: S1.1 What is Commerce.pdf

02 - S1.2 What is Accounting, Why do we need it

Resource: S1.2 What is Accounting & Why Do We Need It.pdf

03 - S1.3 Double Entry Accounting System Steps, Structure

Resource: S1.3 Double Entry Systems - Practical Steps.pdf

Resource: S1.3 Double Entry System Step-Structure.pdf

04 - S1.4 Golden Rules of Accounts

Resource: S1.4 Golden Rules of Accounts.pdf

05 - S1.5 Importance of Accounting

Resource: S1.5 Importance of Accounting.pdf

06 - S1.6 Branches of Accounting

Resource: S1.6 Branches of Accounting.pdf

07 - S1.7 Bases of Accounting

Resource: S1.7 Bases of Accounting.pdf

08 - S1.8 Book Keeping vs Accounting

Resource: S1.8 BOOK KEEPING VS ACCOUNTING.pdf

09 - S1.9 Basic terms used in Accounting

Resource: S1.9 Basic terms used in Accounting.pdf

10 - S1.10 Concepts of Accounting

Resource: S1.10 Fundamental Concepts of Accounting.pdf

11 - S1.11 Accounting Standards

Resource: S1.11 Accounting Standards.pdf

12 - S1.12 The 3-Step Journalizing Method

Resource: S1.12 Excel file with Filled Data.xlsx

Resource: S1.12 Excel Practice file without Data.xlsx

Resource: S1.12 The 3-Step Journalizing Method Journals PDF with Data.pdf

Resource: S1.12 The 3-Step Journalizing Method PDF.pdf

13 - S1.13 The Journal - First Book of Entry in Accounting

Resource: S1.13 Excel file with Filled Data.xlsx

Resource: S1.13 Excel Practice file without Data.xlsx

14 - S1.14 Ledger Proforma

15 - S1.15 Posting to Ledger - Transferring Journal Entries Accurately

Resource: S1.15 Excel file with Filled Data.xlsx

Resource: S1.15 Excel Practice file without Data.xlsx

16 - S1.16 Balancing the Ledger - Finding Closing Balances

17 - S1.17 Trial Balance - Checking Mathematical Accuracy of Accounts

18 - S1.18 Final Accounts - Structure

19 - S1.19 Preparing Trading Account - Calculating Gross Profit or Loss

20 - S1.20 Profit & Loss Account - Finding Net Profit or Loss

21 - S1.21 Balance Sheet

### Section 02 - S2. Course Tips, Download Materials and Practice Notes

01 - S2.1 Download Materials

Resource: S2.1 Course Tips, Download Materials.pdf

02 - S2.2 How to Watch & Practice Videos

### Section 03 - S3. TallyPrime Basics

01 - S3.1 Overview on Tally - History, Advantages, Releases

Resource: S3.1- Overview on Tally – History, Advantages, and Releases.pdf

02 - S3.2 Tally License Modules and Pricing

Resource: S3.2 Pricing of Tally Application – Modules of Licenses.pdf

03 - S3.3 Download and Installation of Tally Prime

Resource: S3.3- Download and Installation – Update TallyPrime.pdf

04 - S3.4 Licensing options – Education mode, License from network and Activate New L

Resource: S3.4 Licensing Options – Education Mode, License from Network, Reactivate License, Activate New License.pdf

05 - S3.5 Change default data saving path I Company Data Saving Path

06 - S3.6 Create your first company –Create, Alter, Shut, Delete, Default Loading Com

Resource: S3.6- Company Creation, Alteration, Shut, and Delete in TallyPrime.pdf

07 - S3.7 TallyPrime – pre-defined voucher an Introduction

08 - S3.8 3-Essentials for Passing Vouchers

Resource: S3.8 3-Essential for Passing Vouchers.pdf

Resource: S3.8 Chart of Accounts.pdf

09 - S3.9 Traditional Recording vs Smart Recording

10 - S3.10 Tally Primes Single Entry Mode vs Double Entry Mode

11 - S3.11 Recording Simple Purchases and Sales

Resource: S3.11 Recording simple purchases & Sales.pdf

Resource: S3.11 Excel with Data.xlsx

Resource: S3.11 Excel without Data.xlsx

12 - S3.12 Recording Contra, Receipt, Payment vouchers in Tally Prime

Resource: S3.12 Recording Contra, receipt, payment vouchers.pdf

13 - S3.13 Recording Journals in Tally Prime

Resource: S3.13 Recording Journals in TallyPrime.pdf

14 - S3.14 How to Update Opening balance of ledger, Opening Stock for Items

Resource: S3.14 How to update opening balance for ledger, opening stock for items.pdf

### Section 04 - S4. Billing in TallyPrime with GST

01 - S4.1 What is GST-a short Introduction to GST

Resource: S4.1- What is GST - A Short Introduction to GST.pdf

02 - S4.2 GST Classifications and Place of Supply

Resource: S4.2 GST Classifications and Place of Supply.pdf

03 - S4.3 Know Your PAN & GST Number

Resource: S4.3 Know Your PAN & GST Number.pdf

04 - S4.4 Know About HSN-SAC Codes

Resource: S4.4 HSN Codes for GST.pdf

Resource: S4.4 SAC Codes for GST.pdf

Resource: S4.4 Know About HSN-SAC Codes PPT PDF.pdf

05 - S4.5 Know difference between Taxable, Exempted, Nil Rated

Resource: S4.5 Know difference between Taxable, Exempted, Nil Rated.pdf

06 - S4.6 Types of GST Registrations & Their Applicable Returns

Resource: S4.6 Types of GST Registrations & Their Applicable Returns.pdf

07 - S4.7 Recording GST Purchases & Sales – Traditional Method

Resource: S4.7 Recording GST Purchases & Sales – Traditional Method PDF.pdf

08 - S4.8 Recording GST with Auto Billing

Resource: S4.7 Recording GST Purchases & Sales – Traditional Method PDF.pdf

09 - S4.9 GST Rates Configuration on different levels

Resource: S4.9 GST Rates Configuration on different levels PDF.pdf

10 - S4.10 GST Rates Based on Product Price

Resource: S4.10 GST rate based on product price PDF.pdf

11 - S4.11 Recording GST Services

Resource: S4.11 Recording GST Services PDF.pdf

12 - S4.12 Recording GST Expenses Claimable and Non-claimable

Resource: S4.12 Recording GST Assets – claimable and non-claimable PDF.pdf

13 - S4.13 Recording GST Assets – claimable and non-claimable

Resource: S4.13 Recording GST Expenses Claimable and Non-claimable PDF.pdf

14 - S4.14 How to Create Ledgers using GSTIN, Import GSTIN

15 - S4.15 How Check Party's GST Filing Status

16 - S4.16 How to View ITC at Risk Balance

17 - S4.17 Billing Configuration – Company Logo

Resource: S4.17 Billing Configuration – Company Logo.pdf

Resource: S4.17 LOGO.jpg

18 - S4.18 Billing Configuration – Additional Description for Stock items & Ledgers

Resource: S4.18 Billing Configuration – Additional Description for Stock Items & Ledgers.pdf

19 - S4.19 Billing Configuration – Enable Rate Inclusive of Taxes column

Resource: S4.19 Billing Configuration – Enable Rate Inclusive of Taxes Column.pdf

20 - S4.20 Billing Configuration – Update Sales Voucher Numbering

Resource: S4.20 Billing Configuration – Update Sales Voucher Numbering.pdf

21 - S4.21 Printing Preferences-Cust Seal and Signature, Jurisdiction, Bank Details,

Resource: S4.21 Printing Configuration – Invoice Status, Bank Details, Jurisdiction, Customer Seal & Signature.pdf

22 - S4.22 Optimize Printing Paper Size

Resource: S4.22 Optimize Paper Printing Size.pdf

### Section 05 - S5: GST Filing, E-Invoice & E-waybill generations

01 - S5.1 Understanding GST Returns & Types

Resource: S5.1 Understanding GST Returns & Types.pdf

02 - S5.2 GST Tax Computation and Adjustments

Resource: S5.2 GST Tax Computation & Adjustments & ITC Utilization Chart.pdf

03 - S5.3 Learn GSTR-1 Tables

04 - S5.4 GSTR-1 Nil Filing

05 - S5.5 GSTR-1 Filing using TallyPrime I Export and Upload JSON

06 - S5.6 Error Report Validation using – GST Offline Tool

07 - S5.7 GSTR-1 Filing with Tally Prime I API Facility

08 - S5.8 GSTR-1 & GSTR-1A Amendments

09 - S5.9 Handling IMS Invoice Management System Dashboard GSTR-2A IMS GSTR-2B

10 - S5.10 Purchases GSTR2B Reconciliation - Manual and Auto

11 - S5.11 GSTR-3B Nil Filing

12 - S5.12 GSTR-3B Filing With Tax Liability Payment

13 - S5.13 GSTR-3B Filing, Liability Adjusted By ITC

14 - S5.14 GST ITC Adjustments - April - Local Purchases & Local Sales

15 - S5.15 GST ITC Adjustments - May - Local Purchases & Non Local Sales

16 - S5.16 GST ITC Adjustments - June - Non Local Purchases & Local Sales

17 - S5.17 GST ITC Adjustments - July - Non Local Purchases & Non Local Sales

18 - S5.18GST ITC Adjustments-August-Local Purchases & Non Local Sales Cum Local Sale

19 - S5.19 GST ITC Adjustments - September - Mixed Purchases & Mixed Sales

20 - S5.20 GST ITC Adjustments - October - Higher Purchases & Less Sales

21 - S5.9 E-Way Bill-Registration

Resource: S5.9 E-Way Bill Registration.pdf

22 - S5.10 E-WAYBILL Generation, Cancellation, Update and more

Resource: S5.10 E-Way Bill Generation, Update & Cancellation in Portal.pdf

23 - S5.11 E Invoice Introduction

Resource: S5.11 E-Invoice Introduction.pdf

24 - S5.12 E-Invoice - GSTIN Registration of E Invoice Portal

Resource: S5.12 E-Invoice - GSTIN Registration on E-Invoice Portal.pdf

25 - S5.13 E-Invoice Enablement for GSTIN on E Invoice Portal

Resource: S5.13 E-Invoice Enablement for GSTIN on E-Invoice Portal.pdf

26 - S5.14 E-Invoice - API User Creation for Your Accounting Software

Resource: S5.14 E-Invoice - API User Creation for Your Accounting Software.pdf

27 - S5.15 Generate E-Invoice using Tally - Generate and E-Invoice ,Print within Tall

Resource: S5.15 Generate E-Invoice using Tally - Generate and Print E-Invoice within Tally using API Logins.pdf

28 - S5.16 E - Invoice Cancellation in Tally as well as E-invoice Portal

Resource: S5.16 E-Invoice Cancellation in Tally and E-Invoice Portal.pdf

29 - S5.17 E-Invoice Generation - Tally to JSON , JSON Manual Upload on E Invoice Por

Resource: S5.17 E-Invoice Generation - Tally to JSON, JSON Manual Upload on E-Invoice Portal.pdf

30 - S5.18 E-Invoice Generation Using Official Excel kit - Excel to JSON, JSON upload

Resource: S5.18 E-Invoice Generation Using Official Excel Kit - Excel to JSON, JSON Upload on E-Invoice Portal.pdf

31 - S5.19 GST Composition scheme introduction, Slabs, Eligibility

Resource: S5.19 GST Composition Scheme Introduction, Slabs, and Eligibility.pdf

32 - S5.20 GST CMP-08 Filing - Composition GST Return Filing

Resource: S5.20 GST CMP-08 Filing - Composition GST Return Filing.pdf

### Section 06 - S6. Inventory Management

01 - S6.1 Inventory Management - Introduction, Importance, Advantages

Resource: S6.1 Inventory Management - Introduction, Importance, and Advantages.pdf

02 - S6.2 Creation of Unit of Measurement

Resource: S6.2 Creation of Unit of Measurement.pdf

03 - S6.3 Stock Group - Creation and Alteration

Resource: S6.3 Stock Group - Creation and Alteration.pdf

04 - S6.4 Stock Category - Creation and Alteration

Resource: S6.4 Stock Category - Creation and Alteration.pdf

05 - S6.5 Stock Items - Creation and Alteration

Resource: S6.5 Stock Items - Creation and Alteration.pdf

06 - S6.6 Activation of Batches for Stock Item

Resource: S6.6 Activation of Batches for Stock Item.pdf

07 - S6.7 allocation of batch details in purchase invoice

Resource: S6.7 Allocation of Batch Details in Purchase Invoice.pdf

08 - S6.8 selling of stock items from batch and identifying of expired batch in sales

Resource: S6.8 Selling Stock Items from Batches and Managing Expired Batches.pdf

09 - S6.9 Returning of Expired Batch Stock Item

Resource: S6.9 Returning Expired Batch Stock Items.pdf

10 - S6.10 Activating Price Levels

Resource: S6.10 Activating Price Levels.pdf

11 - S6.11 defining price levels, creating price list, usage of price list in sale vo

Resource: S6.11 Defining Price Levels, Creating Price List, and Usage in Sales Voucher.pdf

12 - S6.12 Revise Price List

Resource: S6.12 Revise Price List.pdf

13 - S6.13 Different Types of Inventory Valuations

Resource: S6.13 Different Types of Inventory Valuations.pdf

14 - S6.14 Activation of Purchase Order and Sales Order

Resource: S6.14 Activation of Purchase Order and Sales Order.pdf

15 - S6.15 Activation of Delivery & Receipt Notes

Resource: S6.15 Activation of Delivery & Receipt Notes.pdf

16 - S6.16 Activation of Debit & Credit Note

Resource: S6.16 Activation of Debit & Credit Note.pdf

17 - S6.17 purchases management - purchase order, receipt note, purchase, purchase re

Resource: S6.17 Purchases Management - Purchase Order, Receipt Note, Purchase, Purchase Returns.pdf

18 - S6.18 Sales Management - Sales Order, Delivery Note, Sales, Sales Return

Resource: S6.18 Sales Management - Sales Order, Delivery Note, Sales, Sales Return.pdf

19 - S6.19 Creation of Godown

Resource: S6.19 Creation of Godown.pdf

20 - S6.20 How to Create and Manage Multiple Godowns in TallyPrime

Resource: S6.20 How to Create and Manage Multiple Godowns in TallyPrime.pdf

### Section 07 - S7. Bill-wise Accounts I Bills Receivables and Payables Management

01 - S7.1 Bill-wise Accounts - An Introduction

Resource: S7.1 Bill wise Accounts - An Introduction.pdf

02 - S7.2 Bill-wise Accounts - Purchases

Resource: S7.2 Bills wise details for Purchases-Bills Payables.pdf

03 - S7.3 Bill-wise Accounts - Sales

Resource: S7.3 Bill-wise Details for Sales - Bills Receivable.pdf

04 - S7.4 Bill-wise Accounts - Tracking Overdue Supplies

Resource: S7.4 Bill-wise Accounts - Tracking Overdue Supplies.pdf

05 - S7.5 Bill-wise Accounts - Advances Management

Resource: S7.5 Bill-wise Accounts - Advances Management.pdf

06 - S7.6 How to view and analyse bills outstanding reports in tallyprime

Resource: S7.6 How to View and Analyse Bills Outstanding Reports in TallyPrime.pdf

### Section 08 - S8. TallyPrime with Banking

01 - S8.1 Cheque book configuration in tallyprime

Resource: S8.1 Cheque Book Configuration in TallyPrime.pdf

02 - S8.2 Cheque Printing in TallyPrime

Resource: S8.2 Cheque Printing in TallyPrime.pdf

03 - S8.3 Enabling All Banking Transaction Types

Resource: S8.3 Enabling All-Banking Transaction Types.pdf

04 - S8.4 An introduction to post dated cheques management

Resource: S8.4 An Introduction to Post-Dated Cheques Management.pdf

05 - S8.5 Post dated cheques management in tallyprime

Resource: S8.5 Post-Dated Cheques Management in TallyPrime.pdf

06 - S8.6 Applying for TallyPrime License

Resource: S8.6 Applying for TallyPrime License.pdf

07 - S8.7 Introduction to bank reconciliation process in tallyprime

Resource: S8.7 Introduction to Bank Reconciliation Process in TallyPrime.pdf

08 - S8.8 Bank reconciliation in tallyprime

Resource: S8.8 Bank Reconciliation in TallyPrime.pdf

09 - S8.9 How To Do Auto-Bank Reconciliation

Resource: S8.9 Auto Bank Reconciliation in Tally Prime.pdf

### Section 09 - S9: Tally Updates, New Releases, Enhancements

01 - S9.1 Calculator Usage in TallyPrime

Resource: S9.1 Calculator Usage in Tally.pdf

02 - S9.2 Alternative unit of Measurement

Resource: S9.2 Alternative Units of Measurement.pdf

03 - S9.3 Part Numbers in TallyPrime

Resource: S9.3 Part Numbers in TallyPrime.pdf

04 - S9.4 Standard Rate Setups in Tallyprime

Resource: S9.5 Export Reports from TallyPrime.pdf

05 - S9.5 Export Reports from Tally I Excel, PDF, JPEG

Resource: S9.5 Export Reports from TallyPrime.pdf

06 - S9.6 Group Company - Creation, Alteration

Resource: S9.6 Group Company Creation in TallyPrime.pdf

07 - S9.7 Release 5.0 How to Create Ledgers using GSTIN, Import GSTIN

Resource: S9.7 Release 5.0 - Creating Ledgers Using GSTIN.pdf

08 - S9.8 Release 5.0 How Check Party's GST Filing Status

Resource: S9.8 Release 5.0 - Check Party's GST Filing Status.pdf

09 - S9.9 Release 5.0 How to View ITC at Risk Balance

Resource: S9.9 Release 5.0 - How to View ITC at Risk Balance.pdf

10 - S9.10 Release 5.0 How to Enable Strip View

Resource: S9.10 Release 5.0 - How to Enable Strip View.pdf

11 - S9.11 Release 5.0 How Print and Export Multi Vouchers

Resource: S9.11 Release 5.0 - How to Print and Export Multi-Vouchers.pdf

12 - S9.12 Release 5.0 Dashboards - Report Analysis

Resource: S9.12 Release 5.0 - Dashboards-Report Analysis.pdf

13 - S9.13 Release 5.0 How to Download GST Returns Data

Resource: S9.13 Release 5.0 - How to Download GST Returns Data.pdf

14 - S9.14 Release 5.0 GSTR-1 Filing within Tally

Resource: S9.14 Release 5.0 - GSTR-1 Filing within Tally.pdf

15 - S9.15 Release 5.0 Download & Installation of Edit Log

Resource: S9.15 Release 5.0 - Download & Installation of Edit Log.pdf

16 - S9.16 Release 5.0 Tracking data Alterations using Edit Log - for Ledgers, Items

Resource: S9.16 Release 5.0 - Tracking Data Alterations using Edit Log.pdf

17 - S9.17 User Management - Admin Creation , Edit Log , Audit Features

Resource: S9.17 User Management - Admin Creation, Edit Log, Audit Features.pdf

18 - S9.18 User Management - User Creation , Edit Log , Audit Features

Resource: S9.18 User Management - User Creation, Edit Log, Audit Features.pdf

19 - S9.19 User Management - User Roles

Resource: S9.19 User Management - User Roles.pdf

20 - S9.20 User Management - Password Policy

Resource: S9.20 User Management - Password Policy.pdf

21 - S9.21 Access Tally Data on Cloud - Browser Access

Resource: S9.21 Access Tally Data on Cloud - Browser Access.pdf

### Section 10 - S10. TallyPrime Closing

01 - S10.1 Golden Rules of Accounts, Treatment Statements

Resource: S10.1 Golden Rules of Accounts - Simplified Notes.pdf

02 - S10.2 Capital and Drawings Related Adjustments

Resource: S10.2 Capital & Drawings Related Adjustments.pdf

03 - S10.3 Party Related Adjustments - Settlement Discounts, Bad debts, Reserves

Resource: S10.3 Party settlements, Discounts, Bad debts.pdf

04 - S10.4 Appreciation and Depreciation related adjustments

Resource: S10.4 Appreciation & Depreciation Adjustments.pdf

05 - S10.5 Prepaid and Outstanding related adjustments

Resource: S10.5 Prepaid and Outstanding Adjustments.pdf

06 - S10.6 TallyPrime Closing - Backup, Split Company, Setup New FY

Resource: S10.6 Data Backups & Split Company Setups for New Financial Year.pdf

### Section 11 - S11. Case Studies & Assignments

01 - S11.1 Tally Test Paper-1 Comprehensive Case Study - Recap

Resource: S11.1 All Test papers included here.pdf

Resource: S11.1 Shortcut Keys.pdf

### Section 12 - S13: Complete Payroll Management

01 - S13.1 What is Payroll I An Introduction

Resource: S12.1 What is Payroll I An Introduction.pdf

02 - S13.2 What is Basic Salary, methods of calculating basic salary

Resource: S12.2 What is Basic Salary, methods of calculating basic salary.pdf

03 - S13.3 What is DA, methods of Calculating DA

Resource: S12.3 What is DA, methods of Calculating DA.pdf

04 - S13.4 What is HRA, how to Calculate HRA, Taxability and Exemption Calculation

Resource: S12.4 What is HRA, how to Calculate HRA, Taxability and Exemption Calculation.pdf

05 - S13.5 Payheads CA, TA, LTA I Conveyance Allowance I Travel Allowance I Leave TA

Resource: S12.5 Pay heads CA, TA, LTA I Conveyance Allowance I Travel AllowanceI I Leave TA.pdf

06 - S13.6 EPF I Employee Provident Fund I Calculation I Employee and Employer Contri

Resource: S12.6 EPF I Employee Provident Fund I Calculation I Employee and Employer Contributions I Taxability.pdf

07 - S13.7 ESI I Employee State Insurance I Rules I Percentages I Contribution Period

Resource: S12.7 ESI I Employee State Insurance I Rules I Percentages I Contribution Period.pdf

08 - S13.8 What is Gratuity I Calculation of Gratuity I Taxability I Ceiling Limit

Resource: S12.8 What is Gratuity I Calculation of Gratuity I Taxability I Ceiling Limit.pdf

09 - S13.9 Bonus Act 1965 I What is Bonus, How to Calculate, Taxability

Resource: S12.9 Bonus Act 1965 I What is Bonus, How to Calculate, Taxability.pdf

Resource: S12.9 Excel-Bonus Act 1965 I What is Bonus, How to Calculate, Taxability.xlsx

Resource: S12.9 State-wise min-wage for unskilled workers.pdf

Resource: S12.9 use this link for wage limits for skilled, semi-skille, unskilled.txt

10 - S13.10 Income Tax on Salary I TDS Computation, Cess, Surcharges, Salary Incremen

Resource: S12.10 Income Tax on Salary I TDS Computation, Cess, Surcharges, Salary Increment Cases.pdf

Resource: S12.10 Excel -Income Tax on Salary I TDS Computation, Cess, Surcharges, Salary Increment Cases.xlsx

11 - S13.11 Professional Tax - Stat-wise I Applicability I Slabs

Resource: S12.11 Professional Tax - Stat-wise I Applicability I Slabs.pdf

12 - S13.12 CTC vs Gross Salary vs Net Salary

13 - S13.13 Attendance Sheer Preparation I Present, Paid Leaves, Absents, Holidays us

Resource: S12.13 Excel-Attendance Sheer Preparation I Present, Paid Leaves, Absents, Holidays using Countif, Countif, Sum Formulas with Data Validation-With Formulas.xlsx

Resource: S12.13 Excel-Attendance Sheer Preparation I Present, Paid Leaves, Absents, Holidays using Countif, Countif, Sum Formulas with Data Validation-Without Formulas.xlsx

14 - S13.14 Complete Payroll Processing I Basic, DA, HRA, CA, TA, LTA, Bonus, PF, ESI

Resource: S12.14 Complete Payroll Calculation-Gross Salary, Deduction, Income Tax, Sur-charge, Net Salary Calculation -with Formulas.xlsx

Resource: S12.14 Complete Payroll Calculation-Gross Salary, Deduction, Income Tax, Sur-charge, Net Salary Calculation -without Formulas.xlsx

15 - S13.15 PaySlip Generation from Paysheet in MS Excel

Resource: S12.15 PaySlip Generation from Paysheet - with Formulas.xlsx

Resource: S12.15 PaySlip Generation from Paysheet in MS Excel without Formulas.xlsx

16 - S13.16 TDS Deposit on Income Tax Portal

Resource: S12.16 TDS Deposit on Income Tax Portal.pdf

17 - S13.17 Employer Contributions PF ESI

Resource: S12.17 Employer Contributions - with formulas.xlsx

Resource: S12.17 Employer Contributions - without formulas.xlsx

18 - S13.18 EPF,ESI Establishment Registration

Resource: S12.18 USSP- Common Registration- User Manual V1.0.pdf

19 - S13.19 Add - Exit of Employee Records on EPFO website

20 - S13.20 EPF Returns Preparation, Filing

Resource: S12.20 Circular PF on Higher than ceiling wage limit - Joint Request - Copy.pdf

Resource: S12.20 CSV PF-Monthly.csv

Resource: S12.20 Final ECR to upload.txt

Resource: S12.20 PF Returns Preparation.xls

21 - S13.21 EPF Nil Return Filing

22 - S13.22 How to Add Employee in ESI website I generate IP Number

23 - S13.23 ESI Returns Preparation and Filing

24 - S13.24 Tally Prime - Creation of a Company Enable Payroll

Resource: S12.24 Tally Prime - payroll Steps.pdf

## Course ID: 1422920 Algorithmic Trading & Time Series Analysis in Python and R

### Section 01 - Introduction

01 - Introduction

02 - Why to use Python?

### Section 02 - Environment Setup

01 - Installing Python

02 - Installing PyCharm

03 - Installing R and RStudio

### Section 03 - Stock Market Basics

01 - Types of analyses

02 - Stocks and shares

03 - Commodities

04 - Currencies and the FOREX

05 - Short and long positions

### Section 04 - ### USING TECHNICAL INDICATORS ###

01 - Using technical indicators

### Section 05 - Moving Average Indicator

01 - What is the simple moving average (SMA) indicator?

02 - Downloading data from Yahoo Finance

03 - Support and resistance levels

04 - Simple moving averages (SMA) implementation

05 - Exponential weighting

06 - Exponential moving average (EMA) implementation

### Section 06 - Moving Average Crossover Strategy

01 - Moving average crossover strategy I

02 - Moving average crossover strategy II

03 - Moving average crossover strategy III

04 - Moving average crossover strategy IV

05 - Moving average crossover strategy V

### Section 07 - Relative Strength Indicator (RSI)

01 - What is the relative strength indicator (RSI)?

02 - Calculating the RSI values

03 - Returns and logarithmic returns

### Section 08 - Relative Strength Indicator (RSI) Strategy

01 - RSI trading strategy I

02 - RSI trading strategy II

03 - RSI trading strategy III

04 - What is Sharpe ratio?

05 - Calculating Sharpe ratio of a trading strategy

### Section 09 - Backtrader Framework

01 - What is backtrader?

02 - Backtrader basics - handling data

03 - Backtrader basics - using strategies

04 - Backtrader basics - using indicators

05 - Backtrader basics - results

06 - Backtrader basics - broker info and commissions

### Section 10 - Momentum & SMA Combined Trading Strategy

01 - What strategy will we implement?

02 - Average true range (ATR) indicator and position sizing

03 - Average true range (ATR) indicator implementation

### Section 11 - Momentum & SMA Combined Trading Strategy Implementation

01 - Momentum trading strategy implementation I

02 - Momentum trading strategy implementation II

03 - Momentum trading strategy implementation III

04 - Momentum trading strategy implementation IV

05 - Momentum trading strategy implementation V

06 - Momentum trading strategy implementation VI

07 - Momentum trading strategy implementation VII

### Section 12 - ### TIME SERIES ANALYSIS ###

01 - Time series analysis

### Section 13 - Time Series Analysis Fundamentals

01 - What are mean, variance and correlation?

02 - Downloading the data from Yahoo Finance

03 - Calculating useful statistics

04 - Stationarity

05 - What is serial correlation (autocorrelation)?

06 - Correlogram

07 - Understanding the correlogram

### Section 14 - Random Walk Model

01 - White noise introduction

02 - White noise process example

03 - What is random walk?

04 - Random walk example

05 - Modeling assets with random walk

### Section 15 - Autoregressive Model (AR)

01 - Autoregressive model introduction

02 - How to select the best model? (AIC and BIC)

03 - Autoregressive model example

04 - Modeling assets with autoregressive model

### Section 16 - Moving Average Model (MA)

01 - Moving average model introduction

02 - Moving average model example

03 - Modeling assets with moving average model

### Section 17 - Autoregressive Moving Average Model (ARMA)

01 - Autoregressive moving average model introduction

02 - What is the Ljung-Box test?

03 - Autoregressive moving average model example

04 - Autoregressive moving average model example II

05 - Modeling assets with ARMA model

### Section 18 - Autoregressive Integrated Moving Average Model (ARIMA)

01 - ARIMA model introduction

02 - ARIMA model example

03 - Modeling assets with ARIMA model

### Section 19 - Autoregressive Conditional Heteroskedastic Model (ARCH)

01 - Heteroskedasticity in finance

02 - ARCH model introduction

### Section 20 - Generalized Autoregressive Heteroskedastic Model (GARCH)

01 - GARCH model introduction

02 - GARCH model example

03 - Modeling assets with GARCH model

### Section 21 - FOREX Trading Strategy Implementation

01 - FOREX trading strategy implementation I

02 - FOREX trading strategy implementation II

03 - FOREX trading strategy implementation III

04 - FOREX trading strategy implementation IV

05 - FOREX trading strategy implementation V

06 - FOREX trading strategy implementation VI

### Section 22 - Stock Market Trading Strategy Implementation

01 - Stock market trading strategy implementation I

02 - Stock market trading strategy implementation II

### Section 23 - ### MARKET NEUTRAL TRADING STRATEGIES ###

01 - Two types of risk and CAPM

02 - Hedging the market risk

### Section 24 - Mean Reversion

01 - Ornstein-Uhlenbeck stochastic processes

02 - Simulating Ornstein-Uhlenbeck processes

03 - What is cointegration?

04 - Testing cointegration

### Section 25 - Bollinger Bands

01 - Bollinger bands introduction

02 - Bollinger bands visualization

### Section 26 - Bollinger Bands Trading Strategy Implementation

01 - Bollinger bands trading strategy implementation I

02 - Bollinger bands trading strategy implementation II

03 - Bollinger bands trading strategy implementation III

### Section 27 - Cross-Sectional Mean Reversion

01 - What is the cross-sectional mean reversion strategy?

### Section 28 - Cross-Sectional Mean Reversion Trading Strategy Implementation

01 - Cross-sectional mean reversion implementation I

02 - Cross-sectional mean reversion implementation II

### Section 29 - ### MACHINE LEARNING TRADING ALGORITHMS ###

01 - Machine learning approaches

### Section 30 - Logistic Regression

01 - What is linear regression?

02 - Optimization techniques

03 - Logistic regression introduction

04 - Maximum likelihood optimization

### Section 31 - Logistic Regression Trading Strategy Implementation

01 - Logistic regression strategy implementation I

02 - Logistic regression strategy implementation II

### Section 32 - Support Vector Machines (SVMs)

01 - What are Support Vector Machines (SVMs)?

02 - Linearly separable problems

03 - Non-linearly separable problems

04 - Kernel functions

### Section 33 - Support Vector Classifier Trading Strategy Implementation

01 - Support vector machines strategy implementation I

02 - Support vector machines strategy implementation II

### Section 34 - Machine Learning Algorithms and Indicators

01 - SVM with SMA and RSI trading strategy I

02 - SVM with SMA and RSI trading strategy II

03 - SVM with SMA and RSI trading strategy III

### Section 35 - ### PYTHON PROGRAMMING CRASH COURSE ###

01 - Python crash course introduction

### Section 36 - Appendix #1 - Python Basics

01 - First steps in Python

02 - What are the basic data types?

03 - Booleans

04 - Strings

05 - String slicing

06 - Type casting

07 - Operators

08 - Conditional statements

09 - How to use multiple conditions?

10 - Logical operators

11 - Loops - for loop

12 - Loops - while loop

13 - Exercise: calculating the average

14 - Solution: calculating the average

15 - What are nested loops?

16 - Enumerate

17 - Break and continue

18 - Calculating Fibonacci-numbers

19 - Exercise: Fibonacci-numbers

20 - Solution: Fibonacci-numbers

### Section 37 - Appendix #2 - Functions

01 - What are functions?

02 - Defining functions

03 - Positional arguments and keyword arguments

04 - Returning values

05 - Returning multiple values

06 - Exercise: functions

07 - Solution: functions

08 - Yield operator

09 - Local and global variables

10 - What are the most relevant built-in functions?

## Course ID: 5436376 Binary Trading Sure Profit by All Concepts With CWRV Part 2

### Section 01 - Introduction

01 - Introduction

### Section 02 - All others lecture Binary Trading Sure Profit by All Concepts With CWRV Part 2.

01 - Buyers sellers fight on wicks and volume condition for the fight.

02 - Formation of basement with volume, combine strategies of single candle pattern

03 - The reason when and how sellers enter in the market analysis with volume.

04 - Colour change rule 1 buyers then seller enter in the market analysis with volume

05 - Pullback rules of candlestick wicks reading with volume

06 - Sureshot 123 rules in pullback area uptrend and downtrend market

07 - Psychological movement rules of candlestick wicks reading with volume

08 - How to recognize normal market abnormal market, formation of candle with volume

09 - Level trading rule of candlestick wicks reading with volume

10 - Market structure movement and how to place a trade by combining all concepts

## Course ID: 5524980 Forecasting Stock Market with ARIMA Model & Time Series

### Section 01 - Introduction

01 - Introduction to the Course

02 - Table of Contents

Resource: Forecasting Stock Prices with Python.pptx

03 - Whom This Course is Intended for?

### Section 02 - Tools, IDE, and Datasets

01 - Tools, IDE, and Datasets

### Section 03 - Introduction to Stock Market Forecasting

01 - Introduction to Stock Market Forecasting

### Section 04 - Calculating Moving Average

01 - Calculating Moving Average

Resource: CalculatingMovingAverage.png

### Section 05 - ARIMA Model Calculation

01 - ARIMA Model Calculation

Resource: ARIMAModelCalculation.png

### Section 06 - Internal & External Factors That Can Impact Stock Market

01 - Internal & External Factors That Can Impact Stock Market

### Section 07 - Setting Up Google Colab

01 - Setting Up Google Colab

Resource: Google Colab IDE

### Section 08 - Finding & Downloading Dataset From Kaggle

01 - Finding & Downloading Dataset From Kaggle

Resource: Kaggle

### Section 09 - Project: Forecasting Stock Market Trend with ARIMA Model

01 - Uploading Dataset to Google Colab

Resource: StockMarketDataset.zip

02 - Quick Overview of Stock Market Datset

Resource: QuickOverviewoftheDataset.py

03 - Cleaning Dataset by Removing Missing & Duplicate Values

Resource: CleaningDataset.py

04 - Analysing & Visualising Average Highest & Lowest Stock Price Per Year

Resource: Analyzing&VisualizingAverageHighest&LowestPriceData.py

05 - Analysing & Visualising Average Volume

Resource: Analyzing&VisualizingAverageVolume.py

06 - Finding Correlation Between Volume & Price Change

Resource: FindingCorrelationBetweenVolume&PriceChange.py

07 - Calculating 100 Days Moving Average

Resource: movingaverage.py

08 - Analysing & Visualising Volatility

Resource: volatilityanalysis.py

09 - Auto Correlation Function & Partial Auto Correlation Function

Resource: acf&pacf.py

10 - Forecasting with ARIMA & Performing Residual Analysis

Resource: arimaforecasting&residualanalysis.py

### Section 10 - Forecasting Model Evaluation

01 - Calculating Mean Absolute Error, Mean Squared Error & Root Mean Squared Error

Resource: CalculatingMAE,MSE,RMSE.py

### Section 11 - Conclusion & Summary

01 - Conclusion & Summary

## Course ID: 5720876 Machine Learning In Algorithmic Trading

### Section 01 - Introduction

01 - Introduction

02 - Course Content

### Section 02 - Machine Learning Introduction

01 - What Is Machine Learning

02 - Understanding The Basics

03 - Types Of Machine Learning Models

04 - Building Blocks And The Machine Learning Process

05 - About Applications Using Machine Learning

### Section 03 - Supervised Learning

01 - Supervised Learning

02 - Supervised Learning Key Concepts

03 - Supervised Learning: Regression By Example

04 - Supervised Learning: Classification

05 - Supervised Learning: Training Process

### Section 04 - Unsupervised Learning

01 - Unsupervised Learning

02 - Unsupervised Learning: Key Concepts

03 - Unsupervised Learning: Process Pipeline

04 - Unsupervised Learning: Challenges And Best Practices Discussion

05 - Unsupervised Learning: Importance And Closing Notes

### Section 05 - Data Splitting Methods | Overfitting And Underfitting

01 - Data Splitting For Machine Learning

02 - Data Splitting Techniques

03 - Overfitting Underfitting And Generalization

04 - Splitting Python Examples

Resource: 03\_data\_splitting.ipynb

### Section 06 - Classification Algorithms

01 - Classifiers Introduction

02 - K Nearest Neighbors

03 - K Nearest Neighbors Python Example

Resource: 03\_KNN.ipynb

04 - K means

05 - K means Python Example

Resource: 03\_KMeans.ipynb

06 - Decision Trees

07 - Decision Trees Python Example

Resource: 03\_Decision\_Trees.ipynb

08 - Random Forests

09 - Random Forests Python Example

Resource: 03\_Random\_Forests.ipynb

10 - Logistic Regression

11 - Logistic Regression Explained Example

12 - Logistic Regression Python Example

Resource: LogRegression.ipynb

13 - Naive Bayes Classifier

14 - Naive Bayes Gaussian Classifier

15 - Naive Bayes Python Example

Resource: NaiveBayes.ipynb

16 - Support Vector Machines

17 - Support Vector Machines: Kernels

18 - Support Vector Machines: Python Example

Resource: SVM.ipynb

### Section 07 - Evaluating Classifiers

01 - Accuracy, Confusion Matrix And Classification Report

02 - ROC-AUC And PR-AUC

03 - Confusion Matrix Python Example

Resource: Confusion\_Matrix\_ROC\_AUROC.ipynb

04 - ROC-AUC Python Example

Resource: Confusion\_Matrix\_ROC\_AUROC.ipynb

05 - PR-AUC Python Example

Resource: Confusion\_Matrix\_ROC\_AUROC.ipynb

### Section 08 - Data Analysis And Labelling Financial Data

01 - About Data Sources And Labeling

02 - Downloading Historical Data

Resource: 04\_2\_Data\_Acquisition.ipynb

Resource: 01\_Loading\_Cleaning\_Data.ipynb

Resource: PlottingDataCandles.ipynb

Resource: PlottingScatters.ipynb

03 - Visualizing And Inspecting Indicators

Resource: BTCUSD\_Candlestick\_1\_D\_ASK\_08.05.2019-16.10.2021.csv

04 - Visualization Examples

05 - Data Labeling

06 - Fixed Time Horizon Method

07 - Fixed Time Horizon: Python Example

Resource: Fixed\_Horizon.ipynb

Resource: EURUSD\_Daily.csv

08 - Improved Time Horizon Method

09 - Improved Time Horizon Python Example

Resource: 05\_Fixed\_Horizon.ipynb

10 - Triple Barrier Method

11 - Triple Barrier Python Example

Resource: EURUSD\_Daily.csv

Resource: 06\_DynamicDailyVolatility.ipynb

12 - Strategy Specific Dynamic Labeling

13 - Strategy Specific Dynamic Labeling Python Example

Resource: 07\_Asymetric\_DynamicDailyVolatility.ipynb

Resource: EURUSD\_Daily.csv

14 - Strategy Thresholds Optimization

15 - Strategy Example For Optimization

16 - Thresholds Optimization Python Example

Resource: 01\_Strategy\_Optimization.ipynb

Resource: EURUSD\_Candlestick\_5\_M\_ASK\_30.09.2019-30.09.2022.csv

### Section 09 - Feature Engineering

01 - Processing Technical Indicators

02 - Processing Technical Indicators Python Examples

Resource: 01\_Input\_Features\_Examples.ipynb

Resource: EURUSD\_Daily.csv

03 - Features Enhancement And Dimensionality Reduction

04 - Features Enhancement And Dimensionality Reduction Python Examples

Resource: 02\_Input\_Features\_Correlations\_PCA.ipynb

05 - Standardization Normalization And One Hot Encoding

06 - Standardization Normalization And One Hot Encoding Python Examples

Resource: 02\_Input\_Features\_Correlations\_PCA.ipynb

Resource: EURUSD\_Daily.csv

### Section 10 - Training Machine Learning Models

01 - Fitting Classifiers

Resource: 02\_Evaluating\_Classifiers.ipynb

Resource: EURUSD\_Daily.csv

02 - Fitting Classifiers Without Data Leakage

Resource: 02\_Evaluating\_Classifiers\_Data\_Leakage\_Off.ipynb

03 - XGBoost

04 - Neural Networks Classifier

05 - XGBoost And Neural Networks Python Example

Resource: 05\_XGBooost\_NN\_Tested\_Indicators.ipynb

Resource: EURUSD\_Candlestick\_5\_M\_ASK\_30.09.2019-30.09.2022.csv

### Section 11 - Financial Backtesting Of Machine Learning Strategies In Python

01 - Backtesting Machine Learning Indicators In Python

Resource: 02\_XGBooost\_Backtesting.ipynb

02 - Quick Recap And Final Thoughts

## Course ID: 5412670 Candlestick Wicks Reading With Volume CWRV (part 1)

### Section 01 - Introduction

01 - Introduction

### Section 02 - All Others Lectures Of CWRV Course

01 - Candlestick Head Analysis by Wicks With Volume

02 - Candlesticks wicks length analysis with volume

03 - Length analysis of a candlestick

04 - Marubozu candlesticks rules by cwrv

05 - Marubozu Candlestick colour change rules

06 - 123 official rules of CWRV

07 - Master wicks strategy of CWRV

08 - Buyers area sellers area rules by candles wicks reading with volume cwrv

09 - Single candle setup or momentum rule of cwrv

10 - last class of CWRV how to take maximum confirmation for placing a sureshot trade

## Course ID: 5600412 Binary Options Delta River Volume Analysis For Sure Success

### Section 01 - Introduction of delta river course and little explanation of volume bars

01 - Introduction

### Section 02 - All others important classes of Delta River course

01 - Delta River class 2 all Delta River volume bars deep explanation

02 - Delta River class 3 point of control and how to apply point of control

03 - Delta river class 4 point of control and changing effort concept

04 - Delta river class 5 psychological patterns rule with power of control concept

05 - Delta River class 6 single candlestick pattern strategy by delta river volume

06 - Delta river class 7 Double candlestick pattern strategy by delta river volume

07 - Delta River class 8 short range analysis by delta river volume confirmation

08 - Delta River class 9 process to enter in the market and place a sure shot trade

## Course ID: 571876 10X SUPERHUMAN Learning: Speed Reading & Memory Booster

### Section 01 - Unleash Your Genius Today!

01 - WELCOME! IT'S HARD TO BELIEVE JUST HOW FAST SKYROCKETING YOUR LEARNING SPEED IS!

02 - Course Structure: How to 10X Your Learning in Just 5 Weeks!

03 - 7 Myths That HIJACK Your Learning And How To BREAK Them

04 - DOWNLOAD CENTER - Here Are Your Course Resources to Download

Resource: 30 Day Challenge Template.pdf

Resource: Visual Linking Method.pdf

Resource: 40-Min Framework.pdf

Resource: How to expand your vision span and control your eyes.pdf

Resource: How to develop a wide and deep vision span.pdf

Resource: Action Planner - 10X Effective Learning Masterclass.pdf

### Section 02 - Speed Reading FUNDAMENTALS

01 - How Actually Reading Works?

02 - The Speed Reading Mindset

03 - The 1-Min Exercise: Discover How Fast You Can Read & Comprehend

04 - What It Takes to Skyrocket Your Reading Speed?

05 - Speed Reading Fundamentals: KEY POINTS

### Section 03 - Speed Reading 101: How to Read 500 Words per Minute

01 - The Easiest Speed Reading Technique to Use

02 - How to Read in Group of Words

03 - Normal - Double - Triple Drill

04 - Skimming & Scanning

05 - Speed Reading 101: KEY POINTS

### Section 04 - Speed Reading 102: How to Read 800 Words per Minute

01 - How to Reduce the Number of Fixations

02 - How To Expand Your Vision Span And Control Your Eyes - 900 DRILLS

Resource: 1) How to expand your vision span and control your eyes.pdf

03 - How To Develop A Wide And Deep Vision Span - 900 DRILLS

Resource: 2) How to develop a wide and deep vision span.pdf

04 - How to Reduce Subvocalization

05 - The Best Workout to Reduce Subvocalization

06 - Speed Reading: KEY POINTS

### Section 05 - Active Reading: How to Fully Engage With the Book You're Reading

01 - How Active Reading Can Help Increase Your Comprehension

02 - Reading Actively: The Layered Approach

03 - Examples of Active Reading in Practice

04 - How to Use Visualization When Reading

05 - How to Practice Vizualization

06 - The Complete Blueprint on How to Read Any Book

07 - Active Reading: KEY POINTS

### Section 06 - Solid Memory: How to Remember Information Much Faster and More Reliably

01 - Most Popular Myths Related to Memory

02 - How to Use Metaphors in Your Studies

03 - Implementation Stages for Metaphors

04 - Better Metaphors 1/2

05 - Better Metaphors 2/2

06 - How to Encode New Words and Terminology

07 - How to Build Powerful Mental Databases

08 - Solid Memory: KEY POINTS

### Section 07 - Fast Note-Taking: Discover How to Stay Focused During Lectures or Meetings

01 - What is Note-Taking?

02 - Benefits of Active Listening

03 - The Two BIGGEST Mistakes in Note-Taking

04 - Preparation

05 - Set a Purpose and Adjust Your Note-Taking to Align With It

06 - Don’t Write Down the Details

07 - The Cornell Method

08 - Introduction to Deconstructing

09 - Other Opportunities to Use and Practice Note-Taking Skills

10 - Fast Note-Taking: KEY POINTS

### Section 08 - Laser-Like Focus: How to Stay Focused UP to 40 Min Without Getting Distracted

01 - Why Environment Matters More Than You Think

02 - 2. Note-Taking for Fast Focus

03 - Obstacles vs. Deliberate Action

04 - Distraction Log

05 - Deep Work

06 - Discovering Your Peak Focus Times

07 - Introduction to Sticky Habits

08 - 30-Day Challenge

### Section 09 - BONUS: How to Skyrocket Your Productivity!

01 - How to Make this Course Work for You!

02 - #1st Killer Productivity Myth - See Why Time Management Doesn't Exist!

03 - #2nd Killer Productivity Myth - How to Overcome the Victim Mentality!

04 - #3rd Killer Productivity Myth - The Secret to Stop Relying on Your Will Power!

05 - The 4 Secret Pillars of Productivity - And Almost No-One is Aware!

06 - THE POWER of Clarity - The No 1 Reason People Never Create the Results They Want

07 - SMART Goals Made Simple - The Effective Way!

Resource: SMART-Goal-System.pdf

08 - THE POWER of Decision-The Proven Mindset of the Most Millionaires in the World!

09 - How to Overcome Procrastination and Accomplish More FAST! - The Easy Way!

10 - THE POWER of Boundaries - The Top Secret to Become Effective and Powerful!

11 - How to Protect Your TIME - Discover What No-One Has Realized!

12 - The Key to Implement Boundaries - See How EASY It Is!

13 - Action Step - It Takes JUST 15 Minutes and It Will Change Your Perspective!

Resource: Your-Activity-List.pdf

### Section 10 - How to Discover Your TOP Activities - These Will Drive All Your Success!

01 - Your TOP Performance Activities - These Will Give You All The Energy You Need!

02 - The BIGGEST Mistake Entrepreneurs Make that Limits Their Success!

03 - The Easy Method to Calculate the Income Level You Want to Reach!

04 - Your Personal TOP Performance Activities Explained - It's More Than You Think!

Resource: Discovering your Top Performance Activities.pdf

05 - Step 1 - Analyze your Activity List-Do This and Your Life Will Change Magically!

06 - Step 2 - Your Enjoyment Score - It's Important to Know What Your Priorities Are!

Resource: The Enjoyment Score.pdf

07 - Step 3 - Develop Your Top 5 Lists - Separate What You Like from What You Hate!

08 - Step 4 - How to Analyze Your Top 5 Performance Activities ... The EASY Way!

09 - Wrap up - How this Module Helped you Discover What You Love Doing!

10 - How Important it is to Control and Eliminate Distractions

### Section 11 - The Secret to Eliminating Distractions

01 - The Secret to Eliminating Distractions!

02 - How to Control your Phone Distractions!

03 - #1st Secret Strategy to Control Phone Distractions!

04 - # 2nd Secret Strategy to Control Phone Distractions!

05 - #3rd Secret Strategy to Control Phone Distractions!

06 - How to Prioritize your Calls

07 - How to Master your Emails

08 - #1st Secret Strategy to Email Mastery!

09 - #2nd Secret Strategy to Email Mastery!

10 - #3th Secret Strategy to Email Mastery!

11 - #4th Secret Strategy to Email Mastery!

12 - #5th Secret Strategy to Email Mastery!

13 - How to Eliminate the Distractions when someone interrupts you

14 - Implement these Actions and you will give 100% Attention to the love ones!

### Section 12 - TOP SECRET: The Power of Focus - How to Double Your Productivity Overnight!

01 - See Why Being Focused Makes You 10x Ultra Productive!

02 - The No 1 Reason Why People Are Unproductive! - Everything Is Revealed!

03 - The Power of Focus - Double Your Productivity, Get More Energy, Enjoy Life!

04 - The Proof Revealed - Why Multitasking Kills Your Productivity and Speed!

05 - The 50-Minutes Focus - The Single, Most Powerful Tool for Getting More Done!

06 - Action Step - This Alone Will DOUBLE Your Productivity!

07 - Wrap up - How this Module Helped You Getting More Things Done!

### Section 13 - How to Develop a Powerful Productivity Routine

01 - What is a Successful Daily Routine

02 - How to Set Up Your Daily Ritual

03 - What is the concept of "Deliberate Success?"

04 - # 1: Physical Element - create daily routines to improve your health and fitness

05 - # 2: Nutrition Element - how to have a strong nutritional base

06 - 5 Essential Fruits You Need To Eat

07 - # 3: Mental State - how to allow you to relax your mind

08 - # 4: Growth Element - how to improve your knowledge base

09 - Your Daily Routine Ritual

Resource: You Daily Ritual.pdf

10 - # 5: Gratitude - the Mother of all positive thoughts and attitudes

11 - Important Tips! - three advises for a strong daily ritual

### Section 14 - 10X Effective Learning System V1 - COURSE ARCHIVE

01 - How To Make This Course Work For You!

02 - How Reading Works

03 - The Best Tactic for Reading Fast

04 - 15 Minutes to Double Your Reading Speed

Resource: 15 Minutes to Double Your Reading Speed.pdf

05 - Developing a Sense of Urgency When Reading

Resource: Developing a Sense of Urgency When Reading.pdf

06 - How To Set Powerful Learning Goals

### Section 15 - How To Develop Lightening Speed Reading

01 - How To Calculate Your Reading Speed In Just 2 Minutes

02 - The SECRET To Develop Laser-Like Focus While Reading

03 - A Huge Insight On Reading Most Students Miss!

04 - How To Learn Anything From Any Book In 3 Steps

05 - 10 Myths Of Learning And Speed Reading

### Section 16 - Planting The Seeds For Total Reading Domination

01 - How to Eliminate The Bad Habits Of Reading 1/2

02 - How to Eliminate The Bad Habits Of Reading 2/2

03 - The No 1 Solution To Read Faster And Remember More

04 - How To Increase Your Reading Speed By 50% Immediately

05 - 5 Hacks To Eliminate The Bad Habits Of Regression And Progression

06 - The Normal - Double - Triple Drill

### Section 17 - How Your Reading Makes You Smarter

01 - What Is The Optimal Learning State?

02 - Find Out The RIGHT Mindset While Reading

03 - The Complete Blueprint On How To Read Any Book 1/2

04 - The Complete Blueprint On How To Read Any Book 2/2

05 - How To Read ANY Technical Material

06 - My BEST Tips On Studying For Exams

07 - 5 Steps On Finding The Main Ideas In Any Book

08 - Bonus: How To Read FASTER On A Computer Screen 1/2

09 - Bonus: How To Read FASTER On A Computer Screen 2/2

### Section 18 - Learn How To Take Notes Effectively

01 - 5 Most Effective Systems Of Note Taking

02 - How To Learn Mind Mapping - The Effective Way

03 - Critical Concepts To Keep In Mind while Drawing Mindmaps

### Section 19 - Remember All The Information You Need, When You Need It The Most

01 - 5 Popular Myths Related To Memory

02 - How Your Brain Works And How It Stores Information

03 - An Overview Of What We Have Learned So Far

04 - What Is The RIGHT Mindset While Memorizing

### Section 20 - Advanced Memory Techniques To Boost Your Speed Learning

01 - The ONLY 2 Rules You Need To Follow When Memorizing ANY Type Of Information

02 - 3 Memorization Techniques That Work EVERYTIME

03 - #1 Memorization Technique - Use Your Imagination Effectively

04 - #2 Memorization Technique - Used By All Memory Champions

05 - How To Turn Abstract Information Into A Picture

### Section 21 - How To Develop Laser-Like FOCUS!

01 - Why Attention Is Your Only Competitive Advantage In A Distracted World?

02 - Learn The Focus Block Method

03 - How To Completely Eliminate Multitasking

04 - How To Deal With The Daily Temptations We Are Surrounded

### Section 22 - How to Break Bad Habits Today!

01 - How to make this course work for you

02 - Change One Habit at a Time

### Section 23 - Secrets Revealed - You Need to Build a Strong Foundation

01 - The 30 Day Challenge - It Takes JUST One Month to Change Your Life

02 - Case Study - See With Your Own Eyes What Habit I Was Able To Change

03 - How To Set Your Starting Date - Or HOW To Stay Committed And Motivated

04 - TOP Secret Mindset - Why Very Few People Are Doing This?

05 - How To Make Visible Improvements - Easy Steps, Strong Results

### Section 24 - 6 Top Strategies for Accelerating Your Change

01 - How To Follow New Routines That Give You The Same Reward

02 - 5 Pieces of Information You Need To Record - Amazing Strategy

03 - Why You Need To Experiment With New Rewards

04 - How To Examine Your Mood After Completing A New Routine

05 - Advanced Technique: Follow A Step-By-Step Plan That Gives You Super Results

### Section 25 - Magic In Action: The Power of Your Circle of Friends

01 - How To Keep A Daily Journal

02 - How To Team Up With A Friend To Accelerate Your Growth!

03 - How To Avoid Places That Trigger Bad Habits

### Section 26 - How To Build Power Habits Faster than You Could Imagine

01 - How To Live a Healthy Lifestyle

02 - How To Don't Go Overboard - Don't Beat Yourself

03 - How To Be Kind To Yourself When You Have Bad Days

04 - How To Be Happy With Your Achievements

### Section 27 - Special BONUS!

01 - Lessons Learned and What to Do Next

### Section 28 - BONUS: How Your Brain Operates!

01 - How the Left Brain Operates

02 - How the Right Brain Operates

## Course ID: 5339746 Market Microstructure for Traders

### Section 01 - Introduction

01 - Welcome Messsage

02 - Disclaimer

### Section 02 - 1. Introduction to Market Microstructure

01 - 1.1 What is market microstructure?

02 - 1.2 The evolution of market microstructure theory

03 - 1.3 Why is market microstructure important for traders?

### Section 03 - 2.Market Participants and Their Roles

01 - 2.1 Market makers

02 - 2.2 High-frequency traders (HFTs)

03 - 2.3 Institutional traders

04 - 2.4 Retail traders

05 - 2.5 Arbitrageurs

### Section 04 - 3. Price Formation and Discovery

01 - 3.1 Bid-ask spread

02 - 3.2 Order flow and order book dynamics

03 - 3.3 Price impact of trades

04 - 3.4 Informational efficiency

05 - 3.5 Adverse selection and inventory risk

### Section 05 - 4. Market Structures and Trading Mechanisms

01 - 4.1 Centralized markets: Exchanges

02 - 4.2 Decentralized markets: Over-the-counter (OTC)

03 - 4.3 Electronic trading platforms

04 - 4.4 Dark pools and alternative trading systems (ATS)

05 - 4.5 Market fragmentation and liquidity

### Section 06 - 5. Trading Strategies and Market Microstructure

01 - 5.1 Passive trading strategies

02 - 5.2 Active trading strategies

03 - 5.3 Algorithmic trading

04 - 5.4 High-frequency trading

05 - 5.5 Market making strategies

### Section 07 - 6. Market Microstructure Inefficiencies and Exploitation

01 - 6.1 Latency arbitrage

02 - 6.2 Order anticipation

03 - 6.3 Market manipulation

04 - 6.4 Flash crashes and market instability

05 - 6.5 Trading strategies to exploit market inefficiencies

### Section 08 - 7. Market Regulations and Their Impact on Microstructure

01 - 7.1 Regulation NMS (National Market System) in the United States

02 - 7.2 MiFID II (Markets in Financial Instruments Directive) in Europe

03 - 7.3 Circuit breakers and volatility controls

04 - 7.4 The impact of regulations on market microstructure

05 - 7.5 Future trends in market regulation

### Section 09 - 8. Practical Applications and Case Studies

01 - 8.1 Building a simple market making strategy

02 - 8.2 Analyzing the impact of different order types

03 - 8.3 Evaluating the performance of trading strategies

04 - 8.4 Case studies on market microstructure events and their implications

05 - 8.5 Developing a personal trading plan incorporating market microstructure

### Section 10 - Congratulations

01 - Congratulations on Completion

## Course ID: 4299801 Algorithmic Options Trading on Interactive Brokers' Platform

### Section 01 - Introduction to Options Trading and Valuation

01 - IBAPI Courses

02 - Why This Course?

03 - Course Structure

04 - What is a Financial Option

05 - Options Payoff

06 - Option Valuation Intuition and Careers in Quantitative Finance

07 - Calculating Historical Volatility to Feed Black Scholes Model

Resource: ib\_hist\_vol.py

08 - Pricing Options using Black Scholes Model

Resource: ib\_black\_scholes.py

09 - What is Implied Volatility

10 - Calculating Implied Volatility using Black Scholes Model

Resource: ib\_imp\_vol.py

11 - Monte Carlo Simulation Intuition

12 - Pricing Options using Monte Carlo Simulation

Resource: ib\_monte\_carlo\_sim.py

### Section 02 - Handling Option Chains and Contracts

01 - Important - Debugging Errors Arising from Function Signature Changes

02 - IBAPI Function Change Catalogue

Resource: ibapi\_changes.py

03 - Subscribing to Options Market Data

04 - Option Chain and Option Contract - Intro

05 - Extracting Option Chain and Option Contract Details

Resource: ib\_opt\_cntrct\_basic.py

06 - Parsing Option Contract Details

Resource: ib\_opt\_cntrct\_parse.py

07 - Storing Option Contract Details

Resource: ib\_opt\_cntrct\_store.py

08 - Storing Option Contract Details in DataFrames

Resource: ib\_opt\_cntrct\_df.py

09 - Assignment - Extract Option Contracts Expiring in Future Months

10 - Assignment Solution

Resource: ib\_opt\_cntrct\_assignment.py

### Section 03 - Selecting Required Option Contract from the Option Chain

01 - Selecting Desired Option Contract - Intro

02 - Current Price Streaming Using Multithreading - Recap

Resource: ib\_mt\_ltp.py

03 - Getting ATM Option Contract from the Option Chain

Resource: ib\_atm\_option.py

04 - Assignment - Get Desired Option Contract from the Option Chain

Resource: ib\_otm\_option\_assignment.py

### Section 04 - Streaming Options Market Data

01 - Streaming Real Time Market Data - Intro

02 - Streaming LTP of a Specific Option Contract

Resource: ib\_opt\_ltp\_poc.py

03 - Streaming LTP of Multiple Option Contracts - I

04 - Streaming LTP of Multiple Option Contracts - II

Resource: ib\_opt\_ltp.py

05 - How to Interpret Option OI and Volume

06 - Streaming OI and Vol of a Specific Option Contract

Resource: ib\_opt\_oi\_vol\_poc.py

07 - Streaming OI and Vol of Multiple Option Contracts - I

08 - Streaming OI and Vol of Multiple Option Contracts - II

Resource: ib\_opt\_oi\_vol.py

09 - Accessing Option Greeks in TWS

10 - Getting to Know the Greeks

11 - Streaming IV and Greeks for a Specific Option Contract

Resource: ib\_opt\_greeks\_iv\_poc.py

12 - Streaming IV and Greeks for Multiple Option Contracts

Resource: ib\_opt\_greeks\_iv.py

### Section 05 - Placing Option Orders

01 - Placing Option Orders in TWS

02 - Submitting Limit Order for a Standalone Option Contract

Resource: ib\_opt\_order\_basic.py

03 - Placing Combo Orders for a Standalone Option Contract

Resource: ib\_opt\_order\_combo.py

04 - Placing Combo Orders for a Straddle Strategy

Resource: ib\_opt\_order\_combo\_straddle.py

05 - Placing Non Guaranteed Combo Orders

Resource: ib\_opt\_order\_combo\_nonguaranteed.py

06 - Placing Bracket Orders for Combo Contracts

Resource: ib\_opt\_order\_combo\_bracket.py

07 - Checking Position and Open Order for Options

Resource: ib\_open\_orders.py

Resource: ib\_position\_refresh.py

### Section 06 - Implementing Bear Spread Strategy

01 - Bear Spread Strategy - Intro

02 - Getting Historical Data & Performing Technical Analysis

Resource: ib\_opt\_bear\_spread1.py

03 - Getting ATM and OTM Option Contracts for Screened Stocks

Resource: ib\_opt\_bear\_spread2.py

04 - Streaming Market Data for Selected Option Contracts

Resource: ib\_opt\_bear\_spread3.py

05 - Ranking Selected Options Based on Payoff to Risk Ratio

Resource: ib\_opt\_bear\_spread4.py

06 - Placing Combo Orders for Selected Option Contracts

Resource: ib\_opt\_bear\_spread5.py

07 - Key Takeaways and an Assignment

### Section 07 - Extracting Historical Data of Derivative Contracts

01 - Derivative Historical Data Intro

02 - Extracting Historical Data of Futures Contracts

Resource: ib\_hist\_futures.py

03 - Extracting Historical Data of Live Options Contracts

Resource: ib\_hist\_live\_options.py

04 - Extracting Historical Data of Expired Options (Intuition)

05 - Extracting Historical Data of Expired Options - I

06 - Extracting Historical Data of Expired Options - II

Resource: ib\_hist\_expired\_options.py

## Course ID: 4581660 Statistical Arbitrage Bot Build in Crypto with Python (A-Z)

### Section 01 - Introduction

01 - Setting Expectations

02 - The Elephant in The Room: Why Share This Information?

03 - Why You Will Succeed Where Most Do Not

04 - Course Structure and What to Expect

### Section 02 - Resources

01 - Download Code, Files and Resource Here

Resource: Resource Files.zip

02 - UPDATED CODE II - Latest Code for ByBit

### Section 03 - Intuition - Fundamental Principles In Trading

01 - The Biggest Illusion in Trading

02 - Probability - That Math Does Not Lie

03 - Edge #1 - Strategy and Signal

04 - Edge #2 - Optimal Position Sizing

05 - Edge #3 - Becoming the Casino

06 - Edge #4 - Profiting in Up, Down and Ranging markets

07 - Edge #5 - Managing Exchange and Volatility Risk

### Section 04 - Intuition - Strategy

01 - Gameplan - Project Overview

02 - What is Statistical Arbitrage and Cointegration

03 - About cointegration metrics

04 - Statistical Arbitrage - Benefits, Challenges and Risks

### Section 05 - Intuition - Manual Trading

01 - Manually Trading with ByBit - Overview

02 - What ACTUALLY Moves Price

03 - Other Important Orderbook Information

04 - IMPORTANT: Check Your Leverage Settings

05 - Placing Both MARKET and LIMIT Orders

06 - All About Shorting Crypto (Optional)

07 - Placing Our First Short Trade

08 - Candlestick Charts (Optional, Recommended for Newbies)

09 - About Conditional Orders and Closing Comments

### Section 06 - Preparation - Exchange and Coding Environment

01 - Creating Your TestNet Account (on ByBit)

02 - Create Your API Keys

03 - API Documentation Overview

04 - Choosing Our Python IDE

05 - Creating Our PyCharm Environment

### Section 07 - Troubleshooting and Updated Code

01 - Discord and Q&A

Resource: Discord

02 - PyBIT ByBIT API New Walkthrough (Please Watch)

Resource: Google Colab

03 - NEW: ByBit Code Repository Update

### Section 08 - Execution - Strategy

01 - Strategy - Coding Plan Review

02 - Strategy - Getting Started

03 - Creating Input Variables (Config File)

04 - WebSockets and Rate Limits

05 - Getting Tradeable Symbols

06 - Getting and Storing Price Information - Part I

07 - Getting and Storing Price Information - Part II

08 - Checkpoint: Review Price History File

09 - Structuring Close Prices

10 - Calculating Cointegration

11 - Saving and Ranking Pairs

12 - Checkpoint II: Progress and Recap

13 - Writing our Backtesting and Charting Scripts

14 - Plotting and Analysing Charts

15 - Backtesting - Performance Review

16 - UPDATE - Automated Backtesting with PDF Output

### Section 09 - Execution - Function Building Blocks

01 - Reviewing Our Selected Trading Strategy Plan

02 - Executing Coding Plan Review

03 - Configuration Variables and API Connections

04 - Establishing Our WebSocket Connection

05 - Creating Calculation Functions

06 - Testing Calculation Trade Details Function

07 - Function for Position Side and Size

08 - Closing Positions and Active Orders

09 - Setting Leverage

10 - Building Our Place Order Function

11 - Initialise Order Execution

12 - Price Calls - Part I

13 - Price Calls - Part II

14 - Price Calls - Getting Liquidity

15 - Statistical Functions with Z-Score

16 - Getting Latest Z-Score Signal

17 - Checking for Open and Active Positions

18 - Retrieving Price and Quantity for Open and Active Positions

19 - Query Existing Orders

20 - Checking Limit Order Status

21 - Final Functions and Preparation

### Section 10 - Execution - Bot Building

01 - Starting Main Execution and Checking Positions

02 - HOT Qualification and Liquidity Check

03 - Determining Long, Short and Initial Capital

04 - Placing Limit Orders

05 - Placing BTC and ETH Orders (Liquidity Test)

06 - Handling Limit Positions and Returning Kill Switch

07 - Testing Our Bot

08 - BUG FIX - Kill Switch

09 - Restoring Bot to Intended Config

10 - StatBot I Review

### Section 11 - Execution - Summary

01 - BONUS: StatBot II Overview

02 - BONUS: StatBot II Code Walkthrough

03 - Review of Strategy and StatBot Improvement Ideas

04 - CONGRATULATIONS - Closing Comments

### Section 12 - Appendix - Python Coding Crash Course

01 - Setting Up a Python Working Environment

02 - A Developers Mindset

03 - Working with Variables, Lists and Dictionaries

04 - Mastering the IF Statement

05 - Mastering the FOR and While Loops

06 - AND and OR Conditions

07 - Fetching Crypto Prices - REQUESTS and JSON

08 - Understanding Methods (AKA Functions)

09 - Understanding Classes

10 - Python Playground Code - Resources

11 - Creating a Virtual Environment with PIP

## Course ID: 5631164 Gradual Buying and Selling Strategy With Cryptocurrencies

### Section 01 - VENI

01 - About this course

02 - The two rules of making money

03 - Danger Elements

04 - Let's get to know the headquarters

Resource: HeadquartersEN.xlsx

05 - Let's move on to the sections according to our strategy

06 - Let's move on to the 2nd section

07 - Time intervals and profit targets

### Section 02 - VIDI

01 - Terminal pre-preparation

02 - Closing times of candles during the day

03 - Indicator 1

04 - Indicator 2

05 - Indicator 3

06 - Indicator 4

07 - Indicator 5

08 - Indicator 6

09 - Indicator 7

10 - Correction Movement

11 - Let's get to know our system

12 - How much can be earned in cryptocurrency trading?

13 - Ethereum yielded 5000%!

14 - Let's use the calculator

15 - Multi-window usage

16 - T.view practical usage

17 - Linear and logarithmic charts

18 - Divergences

Resource: LightShot.rar

### Section 03 - VICI

01 - Where to get stuck?

02 - Join our 4S bot

Resource: 4S\_Bot\_Link.txt

03 - Fiat Money

Resource: Tether\_Transfer.pdf

04 - Let's choose our exchanges

05 - Let's get to know 4S bot

06 - Let's make our first purchases

07 - Follow to understand the process

08 - 4S Exercise

Resource: DeskPins130.rar

09 - Let's make our first sales

10 - Dead cat bounce

11 - Candle Patterns

12 - Coins that went to space - Open your radars!

13 - The importance of 4-hour charts

14 - Support - resistance zones

15 - Perpetual - Spot coins and volume

16 - Attention - There is art inside!

17 - Let's use the Fibonacci tool

18 - 5in1 indicator

Resource: 5in1.txt

19 - 4S sniper Bot

20 - BTC dominance relationship

21 - Let's understand the trend

22 - Use of stoploss

23 - When does this strategy not work?

24 - BTC and Halving

25 - Trader Club Announcement Channel

Resource: Link.txt

26 - Chat with the world's first known women Scalper

27 - Course Summary

## Course ID: 5763504 A Primer on Quant Trading

### Section 01 - Order Book: Statistics, Dynamics, and Modeling

01 - Book size and shape — empirical observations

Resource: Section1\_script1.py

Resource: Section1\_script2.py

Resource: INTC2015-01-29.aggbook.dat

Resource: SYNTHETIC\_DATA2015-01-29.aggbook.dat

02 - Diffusion models of the order book

03 - The Bouchaud-Mézard-Potters model

### Section 02 - Liquidity Provision: Market Making and the Avellaneda-Stoikov Model

01 - A basic market-making strategy

Resource: Section2.py

Resource: Lesson2.dat

Resource: Lesson2.adverse.dat

Resource: Lesson2.jump.dat

02 - The Avellaneda-Stoikov Model

### Section 03 - Market Impact, Spread, Liquidity

01 - Measuring market impact on trade data; a simple model w/o feedback

Resource: Section3.py

Resource: INTC2015-01-14.ts\_bbo.dat

02 - A comprehensive model with feedback

03 - Permanent market impact – the general case

### Section 04 - Optimal Execution

01 - The liquidation problem: numerical experiments

Resource: Section4.py

02 - The case without drift: a stochastic control approach

03 - The case with drift

## Course ID: 5070128 Core Python 170+ Case Studies For Beginners

### Section 01 - Introduction

01 - Introduction To Python

02 - Features Of Python

03 - Installing Python For Windows

04 - Installation Of Pandas

05 - Installation Of Anaconda Python

06 - Installation Of Google Colab

07 - Executing A Python Program

08 - Comments In Python

### Section 02 - Data Types In Python

01 - Numeric Data Types

02 - String Data Type

03 - Bool Data Type

04 - List Data Type

05 - Tuple Data Type

06 - Set Data Type

07 - Frozenset Data Type

08 - Bytes Data Type

09 - Byte Array Data Type

10 - Dictionary Data Type

### Section 03 - Operators In Python

01 - Arithmetic Operators In Python

02 - Assignment Operators In Python

03 - Comparison Operators In Python

04 - Logical Operators In Python

05 - Bitwise Operators In Python

06 - Identity Membership Operators In Python

### Section 04 - Input and Output Statements

01 - A python program to accept a string from keyboard and display it.

02 - A python program to accept a character from Keyboard

03 - A Python Program To Accept An Integer Number From Keyboard

04 - A Python Program to accept an Integer number from Keyboard : Method 2

05 - A Python Program to accept a float number from Keyboard

06 - A Python Program to accept two numbers and find their sum.

07 - A Python Program to display two numbers with comma separator.

08 - A Python Program to Convert numbers from Hexadecimal, Octal, Binary into Decimal

09 - A Python Program to accept 3 Integers in the same line and display their sum

10 - A Python Program to accept a group of strings separated by commas and display

11 - A Python Program to Evaluate an expression

12 - A Python Program to Accept a List and Display it

13 - A Python Program To Accept A Tuple And Display

14 - A Python Program To Display Command Line Arguments

15 - A Python Program To Find The Sum Of Even Numbers Using Command Line Arguments

16 - A Python Program Using Argument Parser To Find The Square Of A Given Number

### Section 05 - Control Statements In Python

01 - A Python Program to Express a Digit in a Word

02 - A Python Program To Display Multiple Statements When The Condition Is True

03 - A Python Program To Test Whether A Number Is Even Or Odd

04 - A Python Program To Accept A Number From The Keyboard And Test Whether It Is Eve

05 - A Python Program To Test Whether A Given Number Is In Between 1 And 100

06 - A Python Program To Know If A Given Number Is Zero, Positive Or Negative

07 - A Python Program To Accept A Numeric Digit From Keyboard And Display In Words

08 - A Python Program To Display Numbers From 1 To 20 Using While Loop

09 - A Python Program To Display Even Numbers From M And N

10 - A Python Program To Display Characters Of A String Using For Loop

11 - A Python Program To Display Each Character From A String Using Sequence Index

12 - A Python Program To Display Odd Numbers Between 1 And 10

13 - A Python Program To Display Numbers From 10 To 1 Descending Order

14 - A Python Program To Display The Element Of List Using For Loop

15 - A Python Program To Display and Find The Sum Of List of Numbers Using For Loop

16 - A Python To Display And Sum Of A List Of Numbers Using While Loop

17 - A Python Program That Displays Stars In Right Angled Triangular Form Using Neste

18 - A Python Program That Displays Stats In Right Angled Triangular From Using A Sin

19 - A Python Program To Display The Stars In An Equilateral Triangular Form Using Fo

20 - A Python Program To Search for an Element In List of Elements.

21 - A Python Program To Display Numbers From 10 To 6 And Break The Loop When The Num

22 - A Python Program To Display Numbers From 1 To 5 Using Continue Statement

23 - An Example Program On Pass Statement

24 - A Python Program To Retrieve Only Negative Number From A List Of Numbers

25 - A Program To Assert That The User Enters A Number Is Greater Than Zero

26 - A Python Program To Handle The Assertion error Exception That Is Given By Assert

27 - A Python Program to Display Prime Numbers Up to The Given No

### Section 06 - Arrays In Python

01 - A Python Program To Create An Integer Type Array

02 - A Python Program to Create an array with a group of characters

03 - A Python Program to Create one array from another array

04 - A Python Program to retrieve the elements of an array using array index

05 - A Python Program to retrieve the elements of an array using while loop

06 - A Python Program that helps to know the effects of slicing operations array

07 - A Python Program to understand various methods of arrays class

08 - A Python Program to store students marks into an array and find total & average

09 - A Python Program to sort the array elements using bubble sort technique

10 - Program to search for the position of an element in array using sequential searc

11 - A Python Program to create a simple array using Numpy

12 - A Python Program to Create a character type array with a group of characters.

13 - A Python Program to Create an array from another array.

14 - A Python Program to create an array with 5 equal points using linespace()

15 - A Python Program to create an array using logspace()

16 - Creating Arrays using arrange() Function

17 - A Python Program to Create arrays using zeros() and ones()

18 - Mathematical Operations on Arrays

19 - A Python Program to Compare two arrays and display the resultant Boolean type ar

20 - A Python Program to know the effects of any() and all() functions

21 - A Python Program to alias an array and understand the affect of aliasing

22 - A Python Program to Create a View of an existing array.

23 - A Python Program to Copy an array as another array

24 - Dimensions of Arrays (1D and 2D)

25 - Attributes of an Array - 1

26 - Attributes of an Array - 2

27 - Indexing in Multi-dimensional Arrays

28 - Transpose of a Matrix

29 - Matrix Addition , Subtraction and Division

30 - Matrix Multiplication

### Section 07 - Lists and Tuples

01 - A Python Program to Create lists with different types of elements

02 - A Python Program to Create lists using range() function

03 - A Python Program to access list elements using loops

04 - Concatenation of two Lists

05 - Aliasing the Lists

06 - Cloning the List

07 - List Processing Methods

08 - Finding Biggest and Smallest Elements in a List

09 - No of Occurrences of an Element in the List

10 - Storing Different Types of Data in a List

11 - Program : To Create a Nested List and Display its elements

12 - List Comprehensions -I

13 - List Comprehensions -II

14 - Introduction to Tuples

15 - Accessing the tuple elements

16 - Program to accept elements in the form of a tuple and display

17 - Modifying the elements into tuple

18 - Deleting elements from the tuple

19 - To find first occurrence of an element

### Section 08 - Dictionaries in Python

01 - Dictionaries In Python

02 - Create Dictionaries In Python

03 - Dictionary Methods In Python

04 - Python Programming Using Dictionaries

05 - Program To Sort Elements Of Dictionaries

06 - Python Program with Strings Using Dictionaries

07 - Usage Of For Loop

### Section 09 - Functions in Python

01 - Program 1 A Function That Accepts Two Values And Finds Their Sum

02 - Program 2 A Python Program To Find The Sum Of Numbers And Return The Result From

03 - Program 3 A Function To Test Whether A Number Is Even Or Odd

04 - Program 4 Python Program To Calculate Factorial Value Of A Given Number

05 - Program 5 Returning Multiple Values From A Function

06 - Program 6 A Python Program To Know How To Define A Function Inside Another Funct

07 - Program 7 A Program To Know How To Pass A Function As Parameter To Another Funct

08 - Program 8 To Know How A Function Can

09 - Program 9 To Pass An Integer To A Function And Modify It

10 - Program 10 To Pass A List To A Function And Modify It

11 - Program 11 Formal And Actual Arguments

12 - Program 12 Positional Arguments

13 - Program 13 Keyword Arguments

14 - Program 14 Default Arguments

15 - Program 15 Variable Length Arguments

16 - Program 16 Recursive Function

17 - Anonymous Functions Or Lambdas

18 - Lambda Function To Calculate Sum Of Two Numbers

19 - Using Lambdas With Filter () Function

20 - Lambdas With Filter () Function In Python

21 - Using Lambdas With Map () Function

22 - Using Lambdas With Reduce() Function

### Section 10 - File Handling in Python

01 - A Python Program to Create a text file to store individual characters

02 - A Python Program to read characters from a text file

03 - A Python Program to store a group of strings into a text file

04 - A Python Program to read all strings from the text file and display them .

05 - A Python Program to read all strings

06 - A Python Program To Know Whether A File Is Exiting or Not

07 - A Python Program to count number of lines, words, and characters in a text file

08 - Working With Binary Files

09 - The with Statement

10 - With Statement To Open A File & Read Data

11 - Pickle in Python

## Course ID: 5173778 Master JSON Using Python

### Section 01 - Getting Started

01 - Welcome to the Course!

02 - Installing Python

Resource: python.org

03 - Installing JupyterLab

Resource: Python Package Index (PyPI)

Resource: jupyter.org

### Section 02 - JupyterLab Crash Course

01 - Working with Python Files

Resource: greeting.py

02 - Using the Terminal

03 - Using Interactive Python Notebooks

### Section 03 - JSON Structures

01 - What is JSON?

02 - Objects

Resource: Lecture 8 - JSON Objects.ipynb

03 - Arrays

Resource: Lecture 9 - JSON Arrays.ipynb

04 - Nested JSON

Resource: Lecture 10 - Nested JSON.ipynb

### Section 04 - Converting JSON Structures to Python Structures

01 - Data Type Compatibility

02 - Deserializing JSON

Resource: einstein\_quotes.json

Resource: Lecture 12 - Deserializing JSON.ipynb

03 - Serializing JSON

Resource: weather\_alert.json

Resource: Lecture 13 - Serializing JSON.ipynb

### Section 05 - Manipulating Python Structures

01 - Navigating Dictionaries & Lists

Resource: Lecture 14 - Navigating Dictionaries & Lists.ipynb

Resource: navigate.json

02 - List Methods

Resource: Lecture 15 - List Methods.ipynb

03 - Dictionary Methods

Resource: Lecture 16 - Dictionary Methods.ipynb

### Section 06 - Using Pandas with JSON

01 - Normalizing JSON

Resource: Lecture 17 - Normalizing JSON.ipynb

Resource: sea\_level\_rise.json

02 - Exporting DataFrames to JSON

Resource: Lecture 18 - Exporting DataFrames to JSON.ipynb

Resource: sea\_level\_rise.csv

### Section 07 - Working with APIs in Python

01 - API Basics

02 - Making Your First Request

Resource: Lecture 20 - Making Your First Request-.ipynb

Resource: OpenWeatherAPI Sign Up

03 - Request Components

Resource: Lecture 21 - Request Components.ipynb

04 - Response Components

Resource: Lecture 22 - Response Components.ipynb

05 - Congratulations!

## Course ID: 4510136 Python for Software Engineering Bootcamp

### Section 01 - Introduction

01 - Setting Up Our Coding Environment

02 - Installing Python

03 - Writing Our First Program

04 - Variables

05 - String

06 - Integers, Floats, and Type Casting

07 - Booleans and Boolean Operations

08 - None Types

09 - Lists

10 - Tuples

11 - Dictionaries

12 - Formatting Strings and Writing Comments

13 - If Statements

14 - Elif and Else Statements

15 - For Loops

16 - While Loops

17 - Functions

18 - Function Parameters

19 - Global Variables

20 - File Handling

21 - Virtual Environments

22 - Launching Our First Application

23 - Classes

24 - Classes Inheritance

25 - Decorators

26 - Generators

27 - JSON and Text Response

28 - Typing

29 - Response Models

30 - Expanded Field Information

31 - Path Prameters

32 - Request Bodies

33 - Query Parameters

34 - Put and Delete

35 - Docstrings

36 - Async Functions

37 - Directory Structure

38 - API Routers Continued

39 - Environment Variables

40 - HTTP Status Codes

41 - Exceptions

42 - Logging

43 - Logging Formatter

44 - Custom Exception Handlers

45 - Headers and Dependencies

### Section 02 - Testing

01 - Pytest Intro

02 - Writing Our First Service Test

03 - Fixtures

04 - Integration Tests

05 - Testing For Exceptions

06 - Sending Requests in Python

07 - Sending Async Requests

08 - Testing Synchronous Requests

09 - Testing Async Requests

10 - Test Coverage

11 - MyPy Round 2

### Section 03 - Intro to the Terminal

01 - Digital Ocean Setup

02 - SSH on Windows

03 - Connecting With SSH

04 - Basic Navigation

05 - Creating Folders

06 - Creating Files

07 - Removing Folders and Files

08 - Moving, Renaming, Copying Files and Folders

09 - Environment Variables

10 - Piping and Redirecting

11 - Super User and Running Pythons Scripts

12 - Executables and Modifying Permissions

13 - Sending Requests

### Section 04 - Docker

01 - Docker Intro

02 - Creating a Dockerfile

03 - Multistage Build

04 - Docker compose

05 - Makefile

### Section 05 - SQL

01 - Intro to Relational Databases

02 - Data Types and Schemas

03 - [Mac] Setting Up a Local PostgreSQL Server

04 - [Windows] Setting Up a Local PostgreSQL Server

05 - [Mac] SQL Editor Postico

06 - SQL Editor DataGrip

07 - SQL Editor CLI

08 - Creating and Removing a Database

09 - Creating Schemas

10 - Creating Tables

11 - Altering Tables

12 - Enumerated Types

13 - Inserting Values

14 - Running an SQL Script

Resource: Chinook\_PostgreSql.sql

15 - Reading Data

16 - Creating Tables Using Query Results

17 - Aliases and Ordering

18 - Conditional Filtering Direct Comparisons

19 - Conditional Filtering Grouped Comparisons

20 - Joining Conditionals

21 - Negating Conditionals

22 - Filtering Null Values

23 - Creating New Columns and Arithmetics

24 - Datatype Conversions

25 - Logic Statements

26 - Manipulating Strings

27 - String Positional Information

28 - String Subsets and Concatenations

29 - String Replacements

30 - Date and Time

31 - Date and Time Intervals

32 - Comments

33 - Aggregation Functions

34 - Grouping and Filtering Aggregations

35 - Inner Join

36 - Left, Right, and Outer Joins

37 - Self Joins

38 - Unions

39 - Subqueries

40 - CTEs

41 - Window Functions and Aliases

42 - Row Numbers and Ranks

43 - Using Other Rows with Window Functions

44 - NTiles

45 - Understanding Query Performance

### Section 06 - Integrating Databases into our Application

01 - Adding Postgres into our Docker Compose

02 - Creating Database Models in Python

03 - Database Migrations

04 - SQLAlchemy ORM Intro

05 - Creating a Database Client

06 - Updating our Application to Read From the Database

07 - Database Inserts

08 - Database Updates

09 - Database Deletes

10 - Async Database Queries

11 - Async Updates

12 - Updating Unit Tests to Work With the Database

13 - Updating Integration Tests to Work With the Database

14 - SQLite for Testing

15 - Mocking

### Section 07 - Caching

01 - Redis Intro

02 - Adding Caching Into Our Application

03 - Redis Hash Intro

04 - Redis Sets Intro

05 - Adding Hash Caching to Pagination Endpoint

06 - Python Object Serialization

07 - Cache Flushing

08 - Data Compression

### Section 08 - Linting

01 - MyPy Configurations

02 - Import Sorting

03 - Automatic Code Formatting

04 - Additional Code Checking

### Section 09 - Github

01 - Github Credentials Setup

02 - Github Desktop Setup

03 - Cloning A Repository

04 - Pushing a Local Repository to Github

05 - Reverting and Squashing Commits

06 - GitHub Branches

07 - Pull Request

08 - Precommit Hooks

09 - Github CI

10 - Tagged Release

11 - Reading Documentation

### Section 10 - Concurrent and Parallel Programming

01 - Threading, Multiprocessing, Async Intro

02 - Threading in Python

03 - Creating a Threading Class

04 - Creating a Wikipedia Reader

05 - Creating a Yahoo Finance Reader

06 - Queues and Master Scheduler

07 - Creating a Postgres Worker

08 - Integrating the Postgres Worker

09 - Yaml File Intro

10 - Creating a Yaml Reader

11 - Improving Our Wiki Worker

12 - Improving All Workers and Adding Monitoring

13 - Final Program Cleanup

14 - Locking

15 - Multiprocessing Intro

16 - Multiprocessing Queues

17 - Multiprocessing Pool

18 - Multiprocessing Pool Map Multiple Arguments

19 - Multiprocessing Multiple Varying Arguments

20 - Multiprocessing Checking Elements in List in Certain Ranges

21 - Intro to Writing Asynchronous Programs

22 - Asynchronous Tasks

23 - Async Gather Method

## Course ID: 4601546 Visual Studio Code for Developers 2025: Beginner to Advanced

### Section 01 - Welcome to the Course: Visual Studio Code for Developers

01 - Welcome to the Course

02 - Key Information for Course Success

03 - Keyboard Shortcuts: Download Your PDF Guide

Resource: Visual Studio Code Keyboard Shortcuts.pdf

04 - A Warm Welcome: Introduce Yourself and Share Your Goals

### Section 02 - Getting Started with Visual Studio Code

01 - Welcome to this Section

02 - What is Visual Studio Code? Introduction to Code Editors

03 - Download and Install Visual Studio Code

04 - Downloadable Course Resources

Resource: Images.zip

Resource: index.html

Resource: style.css

Resource: click-counter.zip

Resource: dice-game.py

Resource: fibonacci.py

Resource: my-app.zip

Resource: virtual-environment.py

Resource: all-course-resources.zip

05 - Visual Studio Code Updates and Color Theme

06 - The User Interface (Panels, Bars, and Tools)

07 - Let's Review the User Interface

08 - Glyph Margin and Minimap

09 - How to Zoom in the Editor and User Interface

10 - Discussion Topic: Share your Thoughts

### Section 03 - Working with Files and Folders

01 - Welcome to this Section

02 - How to Create a File

03 - How to Save a File

04 - How to Open a File

05 - How to Open a Folder

06 - How to Open Multiple Files and the Preview Mode

07 - How to Enable and Disable Auto Save

08 - How to Close Files and Folders

09 - Discussion Topic: Share your Thoughts

### Section 04 - How to Edit a Project in the Explorer

01 - Welcome to this Section

02 - Introduction to the Explorer

03 - Create and Delete Files in the Explorer

04 - Create and Delete Folders in the Explorer

05 - Move Files and Folders in the Explorer

06 - Expand and Collapse Folders in the Explorer

07 - Rename a File in the Explorer

08 - Drag and Drop a File

09 - Refresh the Explorer

10 - Collapsing All Folders

11 - Discussion Topic: Share your Thoughts

### Section 05 - Search in Visual Studio Code

01 - Welcome to this Section

02 - Downloading our React App

03 - How to Search on the Sidebar

04 - 'code' Command Not Found? Add it to PATH on macOS

05 - Match Case

06 - Match Whole Word

07 - Searching with Regular Expressions

08 - Search and Replace

09 - Preserve Case and More Options

10 - Include and Exclude Files from Search

11 - Search Only in Open Editors

12 - Discussion Topic: Share your Thoughts

### Section 06 - The Integrated Terminal and the Command Prompt

01 - Welcome to this Section

02 - An Introduction to the Terminal

03 - Launch Visual Studio Code from the Terminal

04 - Add code to PATH on macOS

05 - Open Files in Visual Studio Code from the Command Prompt

06 - Open Multiple Files in Visual Studio Code from the Command Prompt

07 - The Integrated Terminal in Visual Studio Code

08 - Install Node.js to run npm start

09 - Multiple Terminals and the Terminal Shell

10 - Command Line Help

11 - Discussion Topic: Share your Thoughts

### Section 07 - Customize Visual Studio Code + Settings

01 - Welcome to this Section

02 - How to Open the Settings Panel

03 - Frequently Used Settings

04 - Change Tabs to Spaces and Spaces to Tabs

05 - Change the Number of Spaces per Level of Indentation

06 - Change the Color Theme

07 - How to Show or Hide the Minimap

08 - Multiple, One, or No Editor Tabs

09 - Resize Panels and Split the Editor

10 - Wrap Long Lines

11 - Customize the Settings for Each Programming Language

12 - Default Settings

13 - Customizing the Integrated Terminal

Resource: Theme Color Article - Visual Studio Code Documentation

14 - Move the Terminal (Right, Left, Bottom)

15 - Bracket Pair Colorization

16 - Discussion Topic: Share your Thoughts

### Section 08 - Improve your Productivity in Visual Studio Code

01 - Welcome to this Section

02 - Important Keyboard Shortcuts

03 - How to Customize Keyboard Shortcuts

04 - Editor Groups

05 - Jump Between Editor Groups

06 - Workspaces with Multiple Folders

07 - Full Screen Mode

08 - Toggle the Menu Bar

09 - Zen Mode in Visual Studio Code

10 - Fast Scrolling

11 - Sticky Scroll

12 - File Rename Selection

13 - Create Files and Folders Simultaneously

14 - Discussion Topic: Share your Thoughts

### Section 09 - Extensions in Visual Studio Code

01 - Welcome to this Section

02 - What is an Extension?

03 - How to Install an Extension in Visual Studio Code

04 - How to Manage and Uninstall Extensions

05 - Disable and Enable Extensions

06 - Disable Auto Update for All Extensions

07 - Auto Update Extensions

08 - Filter and Sort Extensions in the Marketplace

09 - Popular Extension: Prettier

10 - Popular Extension: ESLint

11 - Popular Extension: Python

12 - Popular Extension: React Snippets

13 - Popular Extension: Jupyter Notebooks

14 - Popular Extension: Live Server

15 - How to Customize the Settings of an Extension

16 - Popular Extension: CodeSnap

17 - Discussion Topic: Share your Thoughts

### Section 10 - Code Snippets in Visual Studio Code

01 - Welcome to this Section

02 - What is a Code Snippet?

03 - How to Add a Built-in Code Snippet

04 - Install Code Snippets from the Extensions Marketplace

05 - Define New Custom Code Snippets

06 - Hide and Remove Code Snippets

07 - Discussion Topic: Share your Thoughts

### Section 11 - Web Development in Visual Studio Code

01 - Welcome to this Section

02 - Adjusting Panels and Layout for HTML, CSS, and JavaScript

03 - The Liver Server Extension - See your Changes Immediately

04 - The Live Preview Extension

05 - Emmet Abbreviations - Write HTML Faster in Visual Studio Code

06 - Extensions for Web Development

07 - Discussion Topic: Share your Thoughts

### Section 12 - Git and GitHub in Visual Studio Code

01 - Welcome to this Section

02 - Built-in Git and GitHub Support in Visual Studio Code

03 - The Source Control Panel + Initialize a Repository

04 - Delete a Repository

05 - State Codes - Untracked and Modified

06 - Stage Changes and Make a Commit

07 - Discard Changes

08 - View as Tree or View as List

09 - Commits and Commit History

10 - Add a Remote GitHub Repository

11 - Clone a GitHub Repository

12 - Push Changes to your GitHub Repository

13 - Pull Changes from your GitHub Repository

14 - Create a Branch

15 - Create new branch vs. Create new branch from...

16 - Checkout a Branch

17 - Push a Branch to GitHub

18 - Pull a Branch from GitHub

19 - Merge Branches

20 - Rename a Branch

21 - Delete a Branch

22 - Remove a Remote

23 - The Git Output Window

24 - Popular Source Control Extensions for Visual Studio Code

25 - Discussion Topic: Share your Thoughts

### Section 13 - Python Development in Visual Studio Code

01 - Welcome to this Section

02 - Quick Tip: How to Leave or Update Your Review

03 - The Python Extension

04 - Add Python to PATH

05 - Select a Python Interpreter

06 - Change Indentation to 4 Spaces

07 - Python Linting in Visual Studio Code

08 - See Linting Output

09 - Run a Python File in the Terminal

10 - Create Virtual Environments and Install Packages

11 - Customize your Python Settings

12 - Discussion Topic: Share your Thoughts

### Section 14 - Debugging in Visual Studio Code

01 - Welcome to this Section

02 - What is the Debugger?

03 - The Run and Debug Tool

04 - Introduction to the Debugger

05 - Debug Actions

06 - Breakpoints and Debugging

07 - Function Breakpoints

08 - Enabled vs. Disabled Breakpoints

09 - Logpoints

10 - How to Inspect Variables at Breakpoints

11 - Conditional Breakpoints

12 - Watch Variables and Expressions

13 - Hit Count Breakpoints

14 - Discussion Topic: Share your Thoughts

### Section 15 - Jupyter Notebooks in Visual Studio Code

01 - Welcome to this Section

02 - What is a Jupyter Notebook?

03 - The Jupyter Notebooks Extension

04 - Install the ipykernel for Jupyter Notebooks

## Course ID: 6024616 Automate Video Editing with Python and MoviePy

### Section 01 - Introduction : Automate Video Editing with Python and MoviePy

01 - Course Introduction

### Section 02 - Install Python, Visual Studio Code and Dependencies

01 - Development Environment

02 - Install Python and Visual Studio Code (VS Code)

03 - Install MoviePy Library

### Section 03 - Create Project Folder and Download Training Resources

01 - Create Project Folder and Download Resources

02 - Download the Resources

Resource: MoviePy\_Course\_Resources.zip

### Section 04 - Project: Automating mass video editing with Python and MoviePy

01 - Combine Multiple Clips to Create a Full HD Video

02 - Download the Python Code

Resource: automatic\_video\_editing\_v1.py

03 - Automatically Add Music and Set Its Duration

04 - Download the Python Code

Resource: automatic\_video\_editing\_v2.py

05 - Before Continuing with the Course...

06 - Automate the Process of Adding an Intro and an Outro

07 - Download the Python Code

Resource: automatic\_video\_editing\_v3.py

08 - Automatically Add Transitions Between Clips

09 - Download the Python Code

Resource: automatic\_video\_editing\_v4.py

10 - Install ImageMagick to Extend MoviePy's Capabilities (Part 1)

11 - Install ImageMagick to Extend MoviePy's Capabilities (Part 2)

12 - Automatically Add Text to Videos

13 - Download the Python Code

Resource: automatic\_video\_editing\_v5\_final.py

### Section 05 - Conclusion And Tips

01 - End of the Course

02 - Download the Final Python Code

Resource: automatic\_video\_editing\_v5\_final.py

03 - My Other Udemy Courses

## Course ID: 1035000 Docker Mastery: with Kubernetes +Swarm from a Docker Captain

### Section 01 - Quick Start!

01 - What is Docker in 2025? The Three Innovations

Resource: Kuberenetes vs. Docker (bretfisher.com)

Resource: OCI Overview

Resource: Read this Lecture on GitHub

Resource: Section Commands and Links.pdf

02 - Quick Container Run

Resource: Play With Docker

Resource: Docker Hub

Resource: Docker Official Images

Resource: Apache httpd Image

Resource: Read this Lecture on GitHub

03 - Why Docker? Why Now in 2025?

Resource: A Brief History of Containers: From the 1970s till now (aquasec.com)

Resource: Read this Lecture on GitHub

### Section 02 - Course Introduction

01 - Course Roadmap (overview)

02 - Getting Course Resources (GitHub Repo)

Resource: GitHub Repository For This Course

Resource: Docker Mastery Slides 3.0.zip

Resource: Docker Mastery Commands 2.0.zip

Resource: docker\_cheatsheet.pdf

03 - Course Chat with Students Learning Containers

04 - YouTube Live Q&A with Bret

05 - The Big FAQ

### Section 03 - The Best Way to Setup Docker for Your OS

01 - Installing The Right Docker for this course

Resource: Docker Desktop Alternatives

Resource: Download Docker Desktop

Resource: OCI: Open Container Initiative

02 - Installing Docker: The Fast Way

03 - Docker for Windows: Setup and Tips

Resource: Docker Desktop Install on Windows

Resource: Alternatives to Docker Desktop

Resource: Course GitHub Repo

04 - Docker for Mac: Setup and Tips

Resource: Docker Desktop Install for Mac

Resource: Alternatives to Docker Desktop

Resource: Course GitHub Repo

05 - Docker for Linux Desktop: Setup and Tips

Resource: Docker Desktop Install for Linux Desktops

Resource: Alternatives to Docker Desktop

Resource: Course GitHub Repo

06 - Docker for Linux Server: Setup and Tips

Resource: Docker Engine install for Linux server

Resource: Course GitHub Repo

07 - VS Code for DevOps, Docker, and YAML Editing

Resource: Download VS Code

Resource: Extension: Docker

Resource: Extension Kubernetes

Resource: Extension: Remote Development

Resource: Extension: Live Share

08 - Docker Version and Products Changes

### Section 04 - Creating and Using Containers Like a Boss

01 - Check Our Docker Install and Config

Resource: S03 Containers Slides.pdf

Resource: DM S03 Commands.txt

02 - Starting a Nginx Web Server

03 - Debrief: What Happens When We Run a Container

04 - Container VS. VM: It's Just a Process

Resource: Mike Coleman (Docker Employee) "Docker for the Virtualization Admin" eBook

Resource: Docker Internals: cgroups, namespaces, and beyond (YouTube)

Resource: Docker for Mac Commands for Getting Into Local Docker VM

Resource: Docker for Windows Command for Getting Into Local Docker VM

05 - Windows Containers: Should You Consider Them?

06 - Assignment: Manage Multiple Containers

07 - Assignment Answers: Manage Multiple Containers

08 - What's Going On In Containers: CLI Process Monitoring

09 - Use MariaDB rather than MySQL

10 - Getting a Shell Inside Containers: No Need for SSH

Resource: Package Management Basics: apt, yum, dnf, pkg

11 - Docker Networks: Concepts for Private and Public Comms in Containers

Resource: Docker's --format option for filtering cli output

12 - FIXME: Change In Official Nginx Image Removes Ping

13 - Docker Networks: CLI Management of Virtual Networks

14 - Docker Networks: DNS and How Containers Find Each Other

Resource: DNS Basics (blog and video)

Resource: DNS Basics (in a comic, fun!)

15 - Assignment: Using Containers for CLI Testing

16 - Assignment Answers: Using Containers for CLI Testing

17 - Changes To Upcoming Assignment

18 - Assignment: DNS Round Robin Test

Resource: Round-robin DNS, what is it?

19 - Assignment Answers: DNS Round Robin Test

### Section 05 - Container Images, Where To Find Them and How To Build Them

01 - What's In An Image (and What Isn't)

Resource: DM S04 Commands.txt

Resource: S04 Images Slides.pdf

Resource: Docker Image Specification

02 - The Mighty Hub: Using Docker Hub Registry Images

Resource: List of Official Docker Images

03 - Images and Their Layers: Discover the Image Cache

Resource: Docs: Image storage, drivers, and layers

04 - Image Tagging and Pushing to Docker Hub

05 - Building Images: The Dockerfile Basics

Resource: Dockerfile Command Details (BOOKMARK AND REVIEW, lots of good details you'll use often when making Dockerfiles)

06 - Building Images: Running Docker Builds

07 - Building Images: Extending Official Images

08 - Assignment: Build Your Own Dockerfile and Run Containers From It

09 - Assignment Answers: Build Your Own Dockerfile and Run Containers From It

10 - Using Prune to Keep Your Docker System Clean (YouTube)

### Section 06 - Persistent Data: Volumes, Volumes, Volumes

01 - Container Lifetime & Persistent Data

Resource: Intro to Immutable Infrastructure Concepts

Resource: The 12-Factor App (Everyone Should Read: Key to Cloud Native App Design, Deployment, and Operation)

Resource: 12 Fractured Apps (A follow-up to 12-Factor, a great article on how to do 12F correctly in containers)

Resource: Docker Storage Introduction in Docker Docs

Resource: DM S05 Commands.txt

Resource: S05 Volumes Slides.pdf

02 - Persistent Data: Data Volumes

03 - Shell Differences for Path Expansion

04 - Persistent Data: Bind Mounting

05 - Database Passwords in Containers

06 - Updated Postgres Version for Next Video Assignment

07 - Assignment: Database Upgrades with Named Volumes

08 - Assignment Answers: Update for Recent Postgres Changes

09 - Assignment Answers: Database Upgrades with Named Volumes

10 - File Permissions Across Multiple Containers

11 - Assignment: Edit Code Running In Containers With Bind Mounts

Resource: Jekyll, a Static Site Generator (just as background info, no need to install)

12 - Assignment Answers: Edit Code Running In Containers With Bind Mounts

### Section 07 - Dockerfile ENTRYPOINT

01 - Intro: Review before ENTRYPOINT

Resource: Docs: Dockerfile reference

Resource: S07 Dockerfile Entrypoint.md

02 - Buildtime vs. Runtime

Resource: Dockerfile Buildtime vs Runtime Cheatsheet 2025-01.pdf

03 - What's an ENTRYPOINT?

Resource: Docs: ENTRYPOINT

04 - Using ENTRYPOINT and CMD together

Resource: MySQL Docker Hub Image

Resource: SIGINT, SIGTERM, and SIGKILL

Resource: Docker Blog: Choosing between RUN, CMD, and ENTRYPOINT

Resource: PIDs in Linux and Unix

05 - Shell vs Exec Form

Resource: (Docs) Shell and Exec Form

Resource: (Docs) How CMD and ENTRYPOINT interact

Resource: (Docs) The SHELL statement

Resource: (Docs) ENTRYPOINT Examples

Resource: Crazy ENTRYPOINT, CMD, and SHELL examples

06 - Assignment 1: Create CLI Utilities

Resource: Assignment instructions

07 - Assignment 1: Your Homework

08 - Assignment 1 Answer: Create CLI Utilities

Resource: Assignment instructions

09 - Assignment 2: Startup Scripts

Resource: Assignment instructions

10 - Assignment 2: Your Homework

11 - Assignment 2 Answer: Startup Scripts

Resource: Assignment instructions

### Section 08 - Making It Easier with Docker Compose: The Multi-Container Tool

01 - Docker Compose and The docker-compose.yml File

Resource: The YAML Format: Quick Reference

Resource: Compose File Version Differences (Docker Docs)

Resource: Docker Compose Release Downloads (good for Linux users that need to download manually)

Resource: S06 Compose Slides.pdf

Resource: DM S06 Commands.txt

Resource: S06 Compose Slides.pdf

Resource: YAML Official Site

Resource: YAML vs. JSON

02 - Compose V2

03 - Trying Out Basic Compose Commands

Resource: docker-compose download for Linux via GitHub, Win/Mac already have it.

Resource: Compose vs. Swarm for production

04 - Version Dependencies in Multi-Tier Apps

05 - Compose Assignments

06 - Compose-Assignment-1: Build a Compose File For a Multi-Container Project

Resource: Compose File References

Resource: Don't use Links, it's a legacy feature

07 - Compose-Assignment-1 Answers: Build a Compose File For a Multi-Container Project

08 - Adding Image Building to Compose Files

Resource: Compose Build documentation

09 - Using MariaDB rather than PostgreSQL

10 - Compose-Assignment-2: Compose For Image Building

11 - Compose-Assignment-2 Answers: Compose For Image Building

### Section 09 - Swarm Intro and Creating a 3-Node Swarm Cluster

01 - Swarm Mode: Built-In Orchestration

Resource: Docker 1.12 Swarm Mode Deep Dive Part 1: Topology (YouTube)

Resource: Docker 1.12 Swarm Mode Deep Dive Part 2: Orchestration (YouTube)

Resource: Heart of the SwarmKit: Topology Management (slides)

Resource: Heart of the SwarmKit: Store, Topology & Object Model (YouTube)

Resource: Raft Consensus Visualization (Our Swarm DB and how it stays in sync across nodes)

Resource: DM S07 Commands.txt

Resource: S07 Swarm Intro Slides.pdf

02 - Create Your First Service and Scale It Locally

Resource: Deploy services to a swarm (Docker Docs)

03 - UI Change For Service Create/Update

04 - Use Multipass to create Docker, Swarm, and K8s VMs

05 - Creating a 3-Node Swarm Cluster

Resource: Create and Upload a SSH Key to Digital Ocean

Resource: Docker Swarm Firewall Ports

Resource: Configure SSH for Saving Options for Specific Connections

Resource: Windows Hyper-V driver for docker-machine

Resource: DigitalOcean $100 credit on new signups

### Section 10 - Swarm Basic Features and How to Use Them In Your Workflow

01 - Sections Requirements for Swarm, Drupal, and Postgres

02 - Jan 2025: Bug in Play-with-Docker Swarm networking

03 - Scaling Out with Overlay Networking

Resource: S08 Swarm Basic Features Slides.pdf

Resource: DM S08 Commands.txt

04 - Scaling Out with Routing Mesh

Resource: Use swarm mode routing mesh (Docker Docs)

05 - Assignment: Create A Multi-Service Multi-Node Web App

06 - Assignment Answers: Create A Multi-Service Multi-Node Web App

07 - Swarm Stacks and Production Grade Compose

Resource: Swarm vs. Compose

08 - Secrets Storage for Swarm: Protecting Your Environment Variables

09 - Using Secrets in Swarm Services

Resource: Manage sensitive data with Docker secrets (Docker Docs) (Lots of good reading and examples)

10 - Using Secrets with Swarm Stacks

Resource: Secrets in Compose Files

11 - Assignment: Create A Stack with Secrets and Deploy

12 - Assignment Answers: Create A Stack with Secrets and Deploy

### Section 11 - Swarm App Lifecycle

01 - Using Secrets With Local Docker Compose

Resource: DM S09 Commands.txt

Resource: S09 Swarm App Lifecycle Slides.pdf

02 - Full App Lifecycle: Dev, Build and Deploy With a Single Compose Design

Resource: Using Multiple Compose Files (Docker Docs)

Resource: Using Compose Files In Production (Docker Docs)

03 - Service Updates: Changing Things In Flight

Resource: Service Update command (Docker Docs)

04 - Healthchecks in Dockerfiles

Resource: PHP Laravel Good Defaults with Docker

Resource: HEALTHCHECK in Dockerfile (Docker Docs)

Resource: Healthcheck in Compose files (Docker Docs)

05 - Info on Swarm Mastery

### Section 12 - Container Registries: Image Storage and Distribution

01 - Docker Hub: Digging Deeper

Resource: Docker Hub

Resource: DM S10 Commands.txt

Resource: S10 Container Registries Slides.pdf

02 - Understanding Docker Registry

Resource: Use Registry As A "Mirror" of Docker Hub

Resource: Registry Docs

Resource: Registry Garbage Collection

03 - Run a Private Docker Registry

04 - Assignment: Secure Docker Registry With TLS and Authentication

05 - Using Docker Registry With Swarm

06 - Third Party Image Registries

### Section 13 - Docker in Production

01 - My DockerCon Talk on Docker and Swarm in Production

Resource: Road to Production.pdf

02 - The Future of Swarm

03 - Swarm Raft Quorum and Recovery (Laura Frank from DockerCon 2017)

### Section 14 - The What and Why of Kubernetes

01 - Kubernetes Intro

Resource: Slides The What and Why of Kubernetes.pdf

02 - What Is Kubernetes

Resource: History of Kubernetes

Resource: Kubernetes Home Page

03 - Why Kubernetes

Resource: List of Certified Kubernetes Distributions

04 - Kubernetes vs Swarm

### Section 15 - Kubernetes Architecture and Install

01 - Section Intro

Resource: Slides Kubernetes Architecture and Install.pdf

Resource: Section Commands and Links.pdf

02 - Kubernetes Architecture Terminology

Resource: Kubernetes Components

03 - Kubernetes Local Install

Resource: Minikube Download

Resource: MikroK8s for Linux Hosts

Resource: Install kubectl on Windows when you don't have Docker Desktop

Resource: Play-with-K8s in a Browser

Resource: Killercoda: K8s labs in your browser

04 - Kubernetes Container Abstractions

Resource: Pod Overview (docs)

Resource: Service (docs)

Resource: Namespace (docs)

### Section 16 - Your First Pods

01 - Kubectl run, create, and apply

Resource: Slides Your First Pods.pdf

Resource: Section Commands and Links.pdf

Resource: Kubectl Reference (Docs)

02 - Your First Pod With kubectl run

Resource: kubectl Cheat Sheet

Resource: kubectl for Docker Users

03 - Cheat Sheets for Kubectl

04 - Your First Deployment With kubectl create

Resource: kubectl create deployment (Docs)

Resource: Deployments (Docs)

05 - Scaling ReplicaSets

Resource: ReplicaSets (Docs)

06 - 1.18 Changes to Kubectl Run

### Section 17 - Inspecting Kubernetes Resources

01 - Section Intro

Resource: Slides Inspecting Kubernetes Resources.pdf

Resource: Commands and Links Inspecting Kubernetes Resources.pdf

02 - Inspecting Resources with Get

03 - Inspecting Resources with Describe

04 - Watching Resources

05 - Container Logs in Kubernetes

Resource: System Logs (Docs)

Resource: Logging Architecture (Docs)

Resource: Debug Running Pods (Docs)

Resource: Loki - Like Prometheus, but for logs

Resource: ELK Stack

Resource: Stern multi-pod log tailing

### Section 18 - Exposing Kubernetes Ports

01 - Section Intro

Resource: Slides Exposing Kubernetes Ports with Services.pdf

Resource: Commands and Links Exposing Kubernetes Ports.pdf

02 - Service Types

Resource: Service (docs)

Resource: Service Types (docs tutorial)

03 - MicroK8s and DNS for Services

04 - Creating a ClusterIP Service

Resource: Using Services (docs tutorial)

05 - Running Netshoot in Kubernetes

06 - Creating a NodePort and LoadBalancer Service

Resource: NodePort (docs)

07 - Kubernetes Services DNS

Resource: Kubernetes DNS Specification

Resource: CoreDNS for Kubernetes

### Section 19 - Kubernetes Management Techniques

01 - Section Intro

Resource: Slides Kubernetes Management Techniques.pdf

Resource: Commands and Links Kubernetes Management Techniques.pdf

02 - YAML Generators in kubectl Commands

Resource: kubectl Usage Conventions (docs)

03 - Imperative vs. Declarative

04 - Three Management Approaches

Resource: Kubernetes Management Techniques (docs)

Resource: Imperative Command Examples (docs tutorial)

Resource: Imperative Config Files (doc tutorials)

Resource: Declarative Config Files

### Section 20 - Moving to Declarative Kubernetes YAML

01 - Section Intro

Resource: S16 Slides Moving to Declarative YAML.pdf

Resource: DM S16 (Moving to Declarative Kubernetes YAML).txt

02 - Kubectl apply

Resource: Declarative Management of Kubernetes (Docs)

03 - Kubernetes Configuration YAML

Resource: Understanding Kubernetes Objects and Spec's (Docs)

04 - Building Your YAML Files

05 - Building Your YAML Spec

Resource: Kubernetes API Reference (Docs)

06 - Dry Run CLI Changes

07 - Dry Runs and Diff's

Resource: APIServer dry-run and kubectl diff

08 - Labels and Label Selectors

Resource: Label Selectors (Docs)

Resource: Difference Between Labels and Annotations

Resource: Recommended Labels (Docs)

Resource: Assigning Pods to Nodes (Docs)

Resource: Taints and Tolerations (Docs)

### Section 21 - Your Next Steps and The Future of Kubernetes

01 - Section Intro

Resource: S17 Slides Your Next Steps and The Future of Kubernetes.pdf

Resource: DM S17 (Your Next Steps, and the Future of Kubernetes).txt

02 - Storage in Kubernetes

Resource: Volumes (Docs)

Resource: StatefulSets (Docs)

Resource: PersistentVolume (Docs)

03 - Ingress

Resource: Ingress (Docs)

Resource: Ingress Controllers (Docs)

Resource: Set up Ingress on Minikube with the NGINX Ingress Controller (Docs)

Resource: Traefik Ingress

04 - CRD's and The Operator Pattern

Resource: Custom Resources (Docs)

Resource: The Operator Pattern (Docs)

Resource: OperatorHub

Resource: Awesome Operators List

05 - Higher Deployment Abstractions

Resource: Spreadsheet of Kubernetes Deployment Tools

Resource: Deploying Compose on Kubernetes

Resource: Introducing Kustomize

Resource: Kustomize (GitHub)

Resource: Docker App (GitHub)

Resource: CNAB spec

06 - Kubernetes Dashboard

Resource: The Kubernetes Dashboard

07 - Namespaces and Context

Resource: Configure Access to Multiple Clusters (Docs)

Resource: Namespaces (Docs)

08 - Future of Kubernetes

Resource: Kubernetes Release Notes

### Section 22 - Automated CI Workflows

01 - Section Intro: Automation

02 - The Pull Request

Resource: GitHub Flow

Resource: The DevOps Handbook

Resource: GitHub Flow in Docs

03 - Automation is the Glue of DevOps

04 - Basic PR Workflow

05 - Intermediate PR Workflow

06 - Advanced PR Workflow

### Section 23 - GitHub Actions Workflow Examples

## Course ID: 4672206 Redis: The Complete Developer's Guide

### Section 01 - Get Started Here!

01 - Hello and Welcome!

02 - Join Our Community!

03 - Course Resources

Resource: redis-diagrams.zip

04 - Why Use Redis?

05 - Initial Setup

06 - A Touch More Setup

07 - Running RBook Locally

### Section 02 - Commands for Adding and Querying Data

01 - Basic Commands

02 - Documentation on Commands

03 - Variations of SET

04 - Use Case of Expiration Options

05 - Setting Multiple Keys

06 - GET and MGET

07 - String Ranges

08 - Are These Commands Even Useful?

09 - Dealing with Numbers

10 - Again... Why do These Commands Exist?

11 - Completed Notes

Resource: Basic\_Strings\_-\_Completed.json

12 - Using a Completed Notebook

13 - Exercises

Resource: Strings\_Exercises.json

14 - A Few Exercises

15 - Exercise Solutions

### Section 03 - E-Commerce App Setup

01 - E-Commerce App Source Code Download

Resource: rbay.zip

02 - Don't Skip This Video

03 - Redis Client Libraries

04 - First Implementation Task

05 - Redis Design Methodology

06 - Key Naming Methodology

07 - Adding Page Caching

Resource: 29-adding.zip

08 - Better Key Generation

Resource: 30-better.zip

### Section 04 - Local Redis Setup

01 - Installing on MacOS

02 - Installing on Windows

### Section 05 - Hash Data Structures

01 - Hashes in Redis

02 - Storing and Retrieving Hashes

03 - Deleting Hash Data

04 - Numbers in Hashes

05 - Completed Notes

Resource: Hashes\_-\_Complete.json

### Section 06 - Redis Has Gotcha's!

01 - Slightly Unpredictable HSET and HGETALL

Resource: 001\_-\_codehashes.zip

02 - Issues with HSET

Resource: 002\_-\_codehashes.zip

03 - Issues with HGETALL

Resource: 003\_-\_codehashes.zip

### Section 07 - Powerful Design Patterns

01 - App Overview

02 - Reducing the Design to Queries

03 - What Data Type for Each Resource

04 - Create User Implementation

Resource: 44-create-user.zip

05 - Serialization and Deserialization

06 - Adding Serialize

Resource: 46-adding-serialize.zip

07 - Fetching a User

Resource: 47-fetching-user.zip

08 - Implementing Sessions

09 - Fetching a Saved Session

Resource: 49-fetching-saved.zip

10 - Creating Sessions

Resource: 50-creating.zip

11 - Serializing Date Times

12 - Storing Items

13 - Fetching a Single Item

Resource: 53-fetching.zip

### Section 08 - Pipelining Commands

01 - Batching Commands with Pipelines

02 - Running Multiple Commands at the Same Time

Resource: 55-running.zip

03 - Executing a Pipeline

Resource: 56-executing.zip

### Section 09 - Enforcing Uniqueness with Sets

01 - Basics of Sets

02 - Union of Sets

03 - Intersection of Sets

04 - Difference of Sets

05 - Store Variations

06 - Checking for an Element in a Set

07 - Scanning a Set

08 - Completed Notes

Resource: Sets\_-\_Complete.json

09 - Most Common Use Cases of Sets

### Section 10 - A Little Set Implementation

01 - Requiring Unique User Names

Resource: 66-requiring.zip

02 - Adding a Like System

Resource: 67-adding.zip

03 - How to Count the Number of Likes?

Resource: 68-how-to-count.zip

04 - Updating Like Quantities

Resource: 69-updating.zip

05 - Showing Liked Items

Resource: 70-showing-liked.zip

06 - Showing Common Liked Items

Resource: 71-showing-common.zip

### Section 11 - Organizing Data with Sorted Sets

01 - Sorted Sets

02 - Adding and Removing Members

03 - Finding a Range of Scores

04 - Removing the Highest and Lowest Members

05 - Updating Scores

06 - Querying a Sorted Set

07 - Completed Notes

Resource: Sorted\_Sets\_-\_Complete.json

### Section 12 - Practice Time with Sorted Sets!

01 - Sorted Set Use Cases

02 - Reminder on the Auth Flow

03 - Storing Usernames

Resource: 81-storing.zip

04 - Kind of Storing Strings in Sorted Sets

Resource: 82-kind-of.zip

05 - Converting User IDs

Resource: 83-converting.zip

06 - Plan for Showing Most Viewed Items

07 - Initializing Views on Item Creation

Resource: 85-initializing.zip

08 - Incrementing View Counters

Resource: 86-incrementing.zip

09 - Items by Ending Soonest

Resource: 87-ending-soonest.zip

10 - Querying for Ending Soonest

Resource: 88-querying.zip

### Section 13 - From Relational Data to Redis

01 - Loading Relational Data

Resource: 89-loading.zip

02 - Relational Data with SORT

Resource: 90-relational-data.zip

03 - The Sort Command

04 - Terminology Around Sort

05 - Specifying the BY Argument

06 - Joining Data with Sort

07 - A Few More Arguments

Resource: 95-few-more.zip

08 - Parsing SORT Output

Resource: 96-parsing.zip

09 - Completed Notes

Resource: Sort\_-\_Completed.json

### Section 14 - HyperLogLog Structures

01 - HyperLogsLogs

02 - When to use HyperLogsLogs

03 - HyperLogsLogs in Action

Resource: 100-hyperlogslogs.zip

### Section 15 - Storing Collections with Lists

01 - Lists

02 - Reading and Writing Data to a List

03 - Ranges and Searches

04 - Trimming Lists

05 - Removing Elements

06 - List Use Cases

07 - Using Lists in Our App

08 - Serializing and Deserializing Bids

Resource: 108-serializing.zip

09 - Retrieving Bid Histories

Resource: 109-retrieving.zip

### Section 16 - More Practice with the E-Commerce App

01 - More on Bids

02 - Validating Bids

Resource: 111-validating.zip

03 - Updating Items with Bids

Resource: 112-updating.zip

04 - Issues with Bids

05 - Understanding Concurrency Issues

06 - Applying Atomic Updates

07 - Transactions

08 - Watching a Key with Transactions

09 - Isolated Connections for Transactions

10 - Solving Multiple Bids with a Transaction

Resource: 119-solving.zip

11 - Items by Price

Resource: 120-items-by-price.zip

12 - More on Items by Price

Resource: 121-more.zip

### Section 17 - Extending Redis with Scripting

01 - Lua Scripting

02 - Basics of Lua

03 - Handling Arrays

04 - Handling Tables

05 - Loading and Executing Scripts

06 - Providing Arguments

07 - Providing Key lists

08 - When to Use Scripts

09 - Custom Scripts with Node-Redis

10 - Lua Script Integration

11 - Creating a View-Incrementing Script

Resource: 132-creating.zip

12 - Code Cleanup

Resource: 133-cleanup.zip

### Section 18 - Understanding and Solving Concurrency Issues

01 - Concurrency Revisited

02 - Issues with WATCH

03 - Overview of a Lock

04 - Understanding the Goal

Resource: 137-understanding.zip

05 - Implementing WithLock

Resource: 005\_-\_cc.zip

06 - Using WithLock

Resource: 139-withlock.zip

07 - It Works!

Resource: 140-it-works.zip

08 - Automatically Expiring Locks

Resource: 141-automatically.zip

09 - Another Lock Issue

10 - Solving Accidental Unlocks

11 - Adding an Unlock Script

Resource: 144-adding-unlock.zip

12 - One Last Issue

13 - Providing Expiration Signals

Resource: 146-providing.zip

14 - Alternate Expiration Solution

Resource: 147-alternate.zip

### Section 19 - Querying Data with RediSearch

01 - Redis Modules

02 - Redis Core vs Redis Stack

03 - Using Modules in Production

04 - Overview on Search

05 - Creating and Using an Index

06 - Details on Indexes

07 - Index Field Types

08 - Numeric Queries

09 - Tag Queries

10 - Text Queries

11 - Fuzzy Search

12 - Prefix Search

13 - Pre-Processing Search Criteria

### Section 20 - Search in Action

01 - Search Implementation

Resource: 161-search.zip

02 - The Create Index Function

Resource: 162-create-index.zip

03 - When to Create the Index?

Resource: 163-when.zip

04 - Parsing the Search Term

Resource: 164-parsing.zip

05 - Executing the Search

Resource: 165-executing.zip

06 - Seeding Some Fake Data

Resource: 166-seeding.zip

07 - RediSearch and TF-IDF

08 - Applying Weights to Fields

Resource: 168-applying.zip

09 - Understanding Queries with EXPLAIN

10 - Query Performance with PROFILE

11 - Sorting and Searching

12 - Updating an Existing Index

Resource: 172-updating.zip

13 - Executing the Search

Resource: 173-executing.zip

14 - Deserializing Search Results

Resource: 174-deserializing.zip

### Section 21 - Service Communication with Streams

01 - Streams

02 - Use Case of Streams

03 - Adding Messages to a Stream

## Course ID: 3980730 MySQL High Performance Tuning Guide

### Section 01 - MySQL Architecture

01 - Query Execution Basics

02 - Utility Layer

03 - SQL Layer

04 - Storage Engine Layer

05 - Conclusions

### Section 02 - Spotting Query Problems

01 - Example Databases

Resource: Example Databases

Resource: world.sql.zip

Resource: sakila-db.zip

02 - Making use of Performance Schema

Resource: perf\_schema.sql

03 - Top 10 Time-Consuming Queries

Resource: top\_10\_time\_consuming\_queries.sql

04 - Why Are Queries Slow?

05 - Finding Candidate Queries for Optimization

Resource: cand\_query\_optimization.sql

06 - Table I/O and File I/O for Selects

Resource: IO\_Selects.sql

07 - Table I/O and File I/O for Updates and Deletes

Resource: IO\_Updates.sql

08 - The Error Summary Tables

Resource: error\_summary.sql

09 - Conclusions

### Section 03 - Analyzing Queries

01 - How does the Optimiser work?

02 - EXPLAIN basics

03 - Example 1: Single Table, Table Scan

04 - EXPLAIN ANALYZE

05 - Example 2: Single Table, Index Access

06 - Example 3: Multicolumn Index

07 - Example 4: Two Tables With Subquery And Sorting

08 - Spotting jumps in runtime

09 - Hot and cold cache behaviour

10 - Conclusions

### Section 04 - The Clustered Index and Choosing the Primary Key

01 - Section Overview

02 - The Clustered Indexes

03 - Choosing a Good Primary Key

04 - Use Case: Inserting rows in primary key order with InnoDB

Resource: choosing\_primary\_key.sql

Resource: choosing\_primary\_key.py

05 - Optimal Primary Key in Practice

### Section 05 - Indexing for Performance

01 - Introduction

02 - Why add a Secondary Index?

Resource: secondary\_indexes.sql

03 - When should you Add or Remove Indexes?

04 - Why Index Statistics are Important?

05 - How to help MySQL make better decisions?

06 - Covering Indexes

Resource: covering\_indexes.sql

### Section 06 - MySQL Composite Index

01 - Motivation

02 - Columns Order

03 - Composite Index Hands-on

Resource: composite\_indexes.sql

Resource: composite\_indexes.py

04 - Using Redundant Indexes

05 - Composite Indexes Extra Remarks

06 - Conclusions

### Section 07 - MySQL Configuration

01 - Configuration Best Practices

02 - InnoDB Overview

03 - Adjusting the Buffer Pool Size

Resource: buffer\_pool\_size.sql

04 - Adding more Buffer Pool Instances

05 - Why Dumping the Buffer Pool?

06 - Tuning Flushing Pages Process

Resource: io\_capacity\_flushing\_pages.sql

07 - Tuning Redo Log Buffer

08 - Tuning Redo Log Files

Resource: redo\_logs\_configurations.sql

09 - Parallel Query Execution

Resource: parallel\_query\_execution.sql

10 - Adjusting the Query Buffers

11 - Conclusions

### Section 08 - MySQL Transactions and Locks

01 - Impact of Transactions

02 - Managing Locks

03 - Purpose of Undo Logs

04 - Reduce Locking - Transaction size and age

05 - Reduce Locking - Indexes

06 - Reduce Locking - Transaction Isolation Levels

07 - Monitoring Transactions

08 - Monitoring Locks

09 - Conclusions

### Section 09 - Fundamental Concepts for Scaling MySQL

01 - Scaling MySQL Intro

02 - Read Versus Write Loads

03 - Replication - Scaling Reads with Read Pools

04 - Replication - Service Discovery for Read Pools

05 - Queuing

06 - Sharding Introduction

07 - Sharding Concerns

08 - How to Partition Data in MySQL

09 - Multiple Partitioning Keys

10 - Querying Across Shards

### Section 10 - Bonus Section

01 - Bonus Learning Material

## Course ID: 5684142 Complete Algorithmic Trading Course with Python, ChatGPT, ML

### Section 01 - IMPORTANT NOTE (DO NOT SKIP)

01 - How to navigate the course during revamp?

### Section 02 - Day 1 - Course introduction lecture (DO NOT SKIP)

01 - Course introduction

Resource: Day\_1\_Slides.pdf

### Section 03 - Day 2 - Python Essentials lecture and quiz (2025 version)

01 - Stocks, candlesticks, introduction to QuantConnect and Python Tutor

Resource: Day\_2\_Example\_1.txt

Resource: Day\_2\_Example\_2.txt

Resource: Day\_2\_Slides.pdf

### Section 04 - Day 3 - Python Essentials lecture and quiz (2025 version)

01 - Basic object types and variables

Resource: Day\_3\_Slides.pdf

### Section 05 - Day 4 - Python Essentials lecture and quiz (2025 version)

01 - print(), methods and functions, how to manipulate strings

Resource: Day\_4\_Example\_1.txt

Resource: Day\_4\_Example\_2.txt

Resource: Day\_4\_Example\_3.txt

Resource: Day\_4\_Example\_4.txt

Resource: Day\_4\_Example\_5.txt

Resource: Day\_4\_Slides.pdf

### Section 06 - Day 5 - Python Essentials lecture and quiz (2025 version)

01 - Iterable objects, indexing and slicing

Resource: Day\_5\_Example\_1.txt

Resource: Day\_5\_Example\_2.txt

Resource: Day\_5\_Example\_3.txt

Resource: Day\_5\_Example\_4.txt

Resource: Day\_5\_Example\_6.txt

Resource: Day\_5\_Example\_7.txt

Resource: Day\_5\_Example\_8.txt

Resource: Day\_5\_Slides.pdf

### Section 07 - Day 6 - Homework for Day 1 to Day 5 (2025 version)

### Section 08 - Day 7 - Python Essentials lecture and quiz (2025 version)

01 - Math operators, functions used on integers and floats, operator precedence

Resource: Day\_7\_Example\_1.txt

Resource: Day\_7\_Example\_2.txt

Resource: Day\_7\_Example\_3.txt

Resource: Day\_7\_Example\_4.txt

Resource: Day\_7\_Example\_5.txt

Resource: Day\_7\_Example\_6.txt

Resource: Day\_7\_Slides.pdf

### Section 09 - Day 8 - Python Essentials lecture and quiz (2025 version)

01 - Conditional statements, comparison operators, or logical operator

Resource: Day\_8\_Example\_1.txt

Resource: Day\_8\_Example\_2.txt

Resource: Day\_8\_Example\_3.txt

Resource: Day\_8\_Example\_4.txt

Resource: Day\_8\_Example\_5.txt

Resource: Day\_8\_Example\_6.txt

Resource: Day\_8\_Example\_7.txt

Resource: Day\_8\_Example\_8.txt

Resource: Day\_8\_Example\_9.txt

Resource: Day\_8\_Example\_10.txt

Resource: Day\_8\_Slides.pdf

### Section 10 - Day 9 - Homework for Day 7 and Day 8

### Section 11 - Day 10 - Python Essentials lecture and quiz (2025 version)

01 - Code comments and empty lines, how to work with lists, ChatGPT for slicing lists

Resource: Day\_10\_Example\_1.txt

Resource: Day\_10\_Example\_2.txt

Resource: Day\_10\_Example\_3.txt

Resource: Day\_10\_Example\_4.txt

Resource: Day\_10\_Example\_5.txt

Resource: Day\_10\_Example\_6.txt

Resource: Day\_10\_Example\_7.txt

Resource: Day\_10\_Example\_8.txt

Resource: Day\_10\_Example\_9.txt

Resource: Day\_10\_Example\_10.txt

Resource: Day\_10\_Example\_11.txt

Resource: Day\_10\_Slides.pdf

### Section 12 - Day 11 - Python Essentials lecture and quiz (2025 version)

01 - for loops on lists

Resource: Day\_11\_Example\_1.txt

Resource: Day\_11\_Example\_2.txt

Resource: Day\_11\_Example\_3.txt

Resource: Day\_11\_Example\_4.txt

Resource: Day\_11\_Example\_5.txt

Resource: Day\_11\_Example\_6.txt

Resource: Day\_11\_Example\_7.txt

Resource: Day\_11\_Example\_8.txt

Resource: Day\_11\_Slides.pdf

### Section 13 - Day 12 - Homework for Day 10 and Day 11 (2025 version)

### Section 14 - Day 13 - Python Essentials lecture and quiz (2025 version)

01 - How to work with dictionaries, ChatGPT for sorting dictionaries

Resource: Day\_13\_Example\_1.txt

Resource: Day\_13\_Example\_2.txt

Resource: Day\_13\_Example\_3.txt

Resource: Day\_13\_Example\_4.txt

Resource: Day\_13\_Example\_5.txt

Resource: Day\_13\_Example\_6.txt

Resource: Day\_13\_Example\_7.txt

Resource: Day\_13\_Example\_8.txt

Resource: Day\_13\_Example\_9.txt

Resource: Day\_13\_Slides.pdf

### Section 15 - Day 14 - Homework for Day 13 (2025 version)

### Section 16 - Day 15 - Python Essentials lecture and quiz (2025 version)

01 - What are functions and how to create them

Resource: Day\_15\_Example\_1.txt

Resource: Day\_15\_Example\_2.txt

Resource: Day\_15\_Example\_3.txt

Resource: Day\_15\_Example\_4.txt

Resource: Day\_15\_Example\_5.txt

Resource: Day\_15\_Example\_6.txt

Resource: Day\_15\_Slides.pdf

### Section 17 - Day 16 - Python Essentials lecture and quiz (2025 version)

01 - What is an object and how to create objects

Resource: Day\_16\_Example\_1.txt

Resource: Day\_16\_Example\_2.txt

Resource: Day\_16\_Example\_3.txt

Resource: Day\_16\_Example\_4.txt

Resource: Day\_16\_Example\_5.txt

Resource: Day\_16\_Example\_6.txt

Resource: Day\_16\_Example\_7.txt

Resource: Day\_16\_Slides.pdf

### Section 18 - Day 17 - Homework for Day 15 and Day 16 (2025 version)

### Section 19 - Day 18 - Python Essentials lecture and quiz (2025 version)

01 - Tuples, QuantConnect Research Notebook and statistics library

Resource: Day\_18\_Example\_1.txt

Resource: Day\_18\_Example\_2.txt

Resource: Day\_18\_Example\_3.txt

Resource: Day\_18\_Example\_4.txt

Resource: Day\_18\_Example\_5.txt

Resource: Day\_18\_Slides.pdf

### Section 20 - Day 19 - Python Essentials lecture and quiz (2025 version)

01 - datetime library

Resource: Day\_19\_Example\_1.txt

Resource: Day\_19\_Example\_2.txt

Resource: Day\_19\_Example\_3.txt

Resource: Day\_19\_Example\_4.txt

Resource: Day\_19\_Example\_5.txt

Resource: Day\_19\_Slides.pdf

### Section 21 - Day 20 - Python Essentials lecture and quiz (2025 version)

01 - pandas library and QuantConnect's historical data (Part 1)

Resource: Day\_20\_Example\_1.txt

Resource: Day\_20\_Example\_2.txt

Resource: Day\_20\_Example\_3.txt

Resource: Day\_20\_Example\_4.txt

Resource: Day\_20\_Example\_5.txt

Resource: Day\_20\_Example\_6.txt

Resource: Day\_20\_Example\_7.txt

Resource: Day\_20\_Example\_8.txt

Resource: Day\_20\_Example\_9.txt

Resource: Day\_20\_Slides.pdf

### Section 22 - Day 21 - Python Essentials lecture and quiz (2025 version)

01 - QuantConnect's historical data (Part 2) and how to code indicators with ChatGPT

Resource: Day\_21\_Example\_1.txt

Resource: Day\_21\_Example\_2.txt

Resource: Day\_21\_Example\_3.txt

Resource: Day\_21\_Example\_4.txt

Resource: Day\_21\_Example\_5.txt

Resource: Day\_21\_Example\_6.txt

Resource: Day\_21\_Example\_7.txt

Resource: Day\_21\_Example\_8.txt

Resource: Day\_21\_Slides.pdf

### Section 23 - Day 22 - Python Essentials lecture and quiz (2025 version)

01 - What is machine learning and how to create features

Resource: Day\_22\_Example\_1.txt

Resource: Day\_22\_Slides.pdf

### Section 24 - Day 23 - Python Essentials lecture and quiz (2025 version)

01 - Machine Learning: Random Forest and deployment

Resource: Day\_23\_Example\_1.txt

Resource: Day\_23\_Example\_2\_Base.txt

Resource: Day\_23\_Example\_2\_Final.txt

Resource: Day\_23\_Slides.pdf

### Section 25 - Day 24 - Python Essentials lecture and quiz (2025 version)

01 - Machine Learning: XGBoost and deployment

Resource: Day\_24\_Example\_1.txt

Resource: Day\_24\_Example\_2.txt

Resource: Day\_24\_Example\_3.txt

Resource: Day\_24\_Example\_4.txt

Resource: Day\_24\_Slides.pdf

### Section 26 - Day 25 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Critical knowledge about stocks

Resource: Day\_25\_Slides.pdf

### Section 27 - Day 26 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Introduction to QuantConnect

Resource: Day\_26\_Example\_1.txt

Resource: Day\_26\_Slides.pdf

### Section 28 - Day 27 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Common errors when coding trading bots on QuantConnect

Resource: Day\_27\_Example\_1.txt

Resource: Day\_27\_Example\_2.txt

Resource: Day\_27\_Example\_3.txt

Resource: Day\_27\_Example\_4\_BEFORE.txt

Resource: Day\_27\_Example\_4\_AFTER.txt

Resource: Day\_27\_Slides.pdf

### Section 29 - Day 28 - QuantConnect Essentials lecture and quiz (2025 version)

01 - initialize method and how to access data during backtesting and live trading

Resource: Day\_28\_Example\_1.txt

Resource: Day\_28\_Example\_2.txt

Resource: Day\_28\_Example\_3.txt

Resource: Day\_28\_Slides.pdf

### Section 30 - Day 29 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Order management (Part 1)

Resource: Day\_29\_Example\_1.txt

Resource: Day\_29\_Example\_2.txt

Resource: Day\_29\_Example\_3.txt

Resource: Day\_29\_Example\_4.txt

Resource: Day\_29\_Slides.pdf

### Section 31 - Day 30 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Order management (Part 2)

Resource: Day\_30\_Example\_1.txt

Resource: Day\_30\_Example\_2.txt

Resource: Day\_30\_Example\_3.txt

Resource: Day\_30\_Slides.pdf

### Section 32 - Day 31 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Order management (Part 3)

### Section 33 - Day 32 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Risk management

Resource: Day\_32\_Example\_1.txt

Resource: Day\_32\_Example\_2.txt

Resource: Day\_32\_Example\_3.txt

Resource: Day\_32\_Slides.pdf

### Section 34 - Day 33 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Scheduled events (Part 1)

Resource: Day\_33\_Example\_1.txt

Resource: Day\_33\_Slides.pdf

### Section 35 - Day 34 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Scheduled events (Part 2)

Resource: Day\_34\_Example\_1.txt

Resource: Day\_34\_Example\_2.txt

Resource: Day\_34\_Example\_3.txt

Resource: Day\_34\_Slides.pdf

### Section 36 - Day 35 - QuantConnect Essentials lecture and quiz (2025 version)

01 - How to access historical data in backtesting and live trading algorithm

Resource: Day\_35\_Example\_1.txt

Resource: Day\_35\_Example\_2.txt

Resource: Day\_35\_Example\_3.txt

Resource: Day\_35\_Slides.pdf

### Section 37 - Day 36 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Consolidating data (Part 1)

Resource: Day\_36\_Example\_1.txt

Resource: Day\_36\_Example\_2.txt

Resource: Day\_36\_Example\_3.txt

Resource: Day\_36\_Slides.pdf

### Section 38 - Day 37 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Consolidating data (Part 2)

Resource: Day\_37\_Example\_1.txt

Resource: Day\_37\_Example\_2.txt

Resource: Day\_37\_Example\_3\_Base.txt

Resource: Day\_37\_Example\_3\_Final.txt

Resource: Day\_37\_Slides.pdf

### Section 39 - Day 38 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Consolidating data (Part 3)

Resource: Day\_38\_Example\_1.txt

Resource: Day\_38\_Example\_2.txt

Resource: Day\_38\_Example\_3.txt

Resource: Day\_38\_Example\_4.txt

Resource: Day\_38\_Slides.pdf

### Section 40 - Day 39 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Indicators (Part 1)

Resource: Day\_39\_Example\_1.txt

Resource: Day\_39\_Example\_2.txt

Resource: Day\_39\_Example\_3.txt

Resource: Day\_39\_Example\_4.txt

Resource: Day\_39\_Slides.pdf

### Section 41 - Day 40 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Indicators (Part 2)

Resource: Day\_40\_Example\_1.txt

Resource: Day\_40\_Example\_2.txt

Resource: Day\_40\_Slides.pdf

### Section 42 - Day 41 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Indicators (Part 3)

Resource: Day\_41\_Example\_1.txt

Resource: Day\_41\_Example\_2.txt

Resource: Day\_41\_Example\_3.txt

Resource: Day\_41\_Slides.pdf

### Section 43 - Day 42 - QuantConnect Essentials lecture and quiz (2025 version)

01 - Universe selection (Part 1)

Resource: Day\_42\_Example\_1.txt

Resource: Day\_42\_Example\_2.txt

Resource: Day\_42\_Slides.pdf

### Section 44 - QuantConnect essentials: Universe selection (2024 version)

01 - Introduction

Resource: QuantConnect essentials Universe selection PPT.pptx

02 - Example 1: Filter down penny stocks

Resource: Example 1.txt

03 - Example 2: Filter stocks of companies that operate in the semiconductor industry

Resource: Example 2.txt

04 - Example 3: Filter based on revenue growth

Resource: Example 3.txt

05 - Example 4: Filter top 5 companies in terms of revenue growth

Resource: Example 4.txt

06 - Example 5: Filter stocks (current daily closing $ > daily closing $ 15 days ago)

Resource: Example 5.txt

07 - Example 6: Using 200-EMA to filter stocks

Resource: Example 6.txt

08 - Example 7: Create SMA indicators for stocks entering the trading bot

Resource: Example 7.txt

09 - Example 8: Updating indicators with consolidated data

Resource: Example 8.txt

10 - Example 9: Ensure that AAPL, TSLA and SPY get filtered down

Resource: Example 9.txt

11 - Example 10: Adjust universe settings

Resource: Example 10.txt

12 - Example 11: Schedule universe selection to happen only on Sunday

Resource: Example 11.txt

13 - Example 12: Universe selection with trading logic

Resource: Example 12.txt

14 - Important things to remember about universe selection

### Section 45 - QuantConnect essentials: Alternative data (2024 version)

01 - Introduction

Resource: QuantConnect essentials Alternative data PPT.pptx

02 - Example 1: Tiingo news with 1 stock

Resource: Example 1.txt

03 - Example 2: Tiingo news with universe selection

Resource: Example 2.txt

### Section 46 - QuantConnect essentials: Coding your idea (2024 version)

01 - Introduction

Resource: QuantConnect essentials Coding your idea PPT.pptx

02 - Example 1: Momentum trading strategy

Resource: Example 1.txt

### Section 47 - QuantConnect essentials: Interpreting backtest results (2024 version)

01 - Introduction

Resource: QuantConnect essentials Interpreting backtest results PPT.pptx

02 - My recommendation

### Section 48 - QuantConnect essentials: Tips & common mistakes (2024 version)

01 - Introduction

Resource: QuantConnect essentials Tips & common mistakes PPT.pptx

02 - Tips

03 - Common mistakes

### Section 49 - QuantConnect essentials: Live trading (2024 version)

01 - Introduction

Resource: QuantConnect essentials Live trading PPT.pptx

02 - Launch a trading bot for live trading

### Section 50 - QuantConnect essentials: Live trading notifications (2024 version)

01 - Introduction

Resource: QuantConnect essentials Live trading notifications PPT.pptx

02 - Example 1: Send email and sms notifications when order submitted

Resource: Example 1.txt

### Section 51 - QuantConnect essentials: Interactive Brokers (2024 version)

01 - Introduction

Resource: QuantConnect essentials Interactive Brokers PPT.pptx

02 - Important points about Interactive Brokers

03 - Conclusion

### Section 52 - Bonus chapter: Options (2024 version)

01 - Introduction

Resource: Bonus chapter Options PPT.pptx

02 - Example 1: Request for options

Resource: Example 1.txt

03 - Example 2: Filter option contracts

Resource: Example 2.txt

04 - Example 3: Access attributes of individual option contracts

Resource: Example 3.txt

05 - Example 4: Working with options of multiple stocks/ETFs

Resource: Example 4.txt

06 - Example 5: Trading options based on MACD crossover of underlying

Resource: Example 5.txt

07 - Example 6: Stop trading and liquidate all positions at 3:55 PM

Resource: Example 6.txt

## Course ID: 4668148 Managing Options Positions in plain English

### Section 01 - The Life of an Option

01 - The Life of an Option

Resource: The life of an Option.pdf

02 - Requirements to start trading Options

Resource: Requirements to start trading Options.pdf

03 - Exercise and Assignment

### Section 02 - Options Positions, Trades and Legs

01 - Options Positions, Trades and Legs

Resource: Options Positions, Trades and Legs.pdf

### Section 03 - Describing Options Positions and their components

01 - Describing Options Positions and their components

Resource: Describing Options Positions and their components.pdf

02 - Buy and Sell to Open vs Buy and Sell to Close

Resource: Buy and Sell to Open vs Buy and Sell to Close.pdf

### Section 04 - Defining Adjustment Trades

01 - What are Adjustment Trades?

Resource: What are Adjustment Trades.pdf

02 - Adding a leg

Resource: Adding a leg.pdf

03 - Removing a leg

Resource: Removing a leg.pdf

04 - Rolling up

Resource: Rolling up.pdf

05 - Rolling down

Resource: Rolling down.pdf

06 - Rolling out

Resource: Rolling out.pdf

07 - Rolling up and out

Resource: Rolling up and out.pdf

08 - Rolling down and out

Resource: Rolling down and out.pdf

09 - Summary of all Adjustment Trades

Resource: Summary of all Adjustment Trades.pdf

### Section 05 - Running Totals and Equivalent Position

01 - Accounting for Adjustments: Running Totals

Resource: Accounting for Adjustments. Running totals.pdf

### Section 06 - Managing an Options Position over Time: Pepsico

01 - Initial Trade: Selling a Call

Resource: Initial Trade. Selling a Call.pdf

02 - Adding a Short Put and turning it into a Strangle

Resource: Adding a short Put and turning it into a Strangle.pdf

03 - Rolling up the Short Put into a Straddle

Resource: Rolling up the short Put into a Straddle.pdf

04 - Rolling out the Straddle

Resource: Rolling out the Straddle.pdf

05 - Final Trade: Closing out the Straddle

Resource: Final Trade. Closing out the Straddle.pdf

### Section 07 - Monitoring Profits and Losses: Open P/L and Realized P/L

01 - Why you need to monitor your Options Positions' P/L

Resource: Why you need to monitor your Options Positions PL.pdf

02 - Trading McDonald's: Initial Trade - Selling a Put

Resource: Trading McDonalds - Initial Trade - Selling a Put.pdf

03 - Trading McDonald's: Rolling out the short Put

Resource: Trading McDonalds - Rolling out the short Put.pdf

04 - Trading McDonald's: Closing out the short Put

Resource: Trading McDonalds - Closing out the short Put.pdf

05 - Open P/L and Realized P/L

Resource: Open PL and Realized PL.pdf

06 - Full Trade Analysis: Options Position in McDonald's

Resource: Full Trade Analysis - Options Position in McDonalds.pdf

### Section 08 - Reasons to adjust Options Positions

01 - Reasons to adjust Options Positions

Resource: Reasons to adjust Options Positions.pdf

### Section 09 - Differences between current P/L and P/L at expiration for Options Strategies

01 - Differences between current P/L and P/L at expiration for Options Strategies

Resource: Differences between current PL and PL at expiration for Options Strategies.pdf

02 - Understanding Intrinsic and Extrinsic Values

Resource: Understanding Intrinsic and Extrinsic values.pdf

03 - Dissecting Current and Expiration P/L lines for Options Strategies

Resource: Dissecting Current and Expiration PL lines for Options Strategies.pdf

04 - Analyzing 29 Options Strategies and their Current and Expiration P/L lines

Resource: Analyzing 29 Options Strategies and their Current and Expiration PL lines.pdf

### Section 10 - Trading the Wheel

01 - Trading the Wheel: Introduction

02 - Trading the Wheel: Mechanics

03 - Trading the Wheel: Example

## Course ID: 4595938 Computer Architecture and Computer Organization Masterclass

### Section 01 - Welcome to Your Course

01 - Hello Everyone. Get to know your course structure

Resource: Course Outline.pdf

### Section 02 - Introduction to Computer Organization and Architecture

01 - Introduction to Computer Organization and Architecture

02 - Computer Level Hierarchy

03 - Introduction to Computer Organization and Architecture Lecture Materials

Resource: 1.pdf

Resource: 2.1.pdf

### Section 03 - Fetch - Decode - Execute Cycle

01 - Fetch Decode Execute Cycle Explained Part 1

02 - Fetch Decode Execute Cycle Explained Part 2

03 - Fetch - Decode - Execute Cycle Lecture Materials

Resource: 2.2.pdf

### Section 04 - Assembly Language Programming with the Little Man Computer

01 - What is the Little Man Computer

02 - Programming the Little Man Computer

03 - Fetch Decode Execute Cycle Explained using the Little Man Computer

04 - Writing Assembly Language Code

### Section 05 - Instruction Set Architecture (ISA)

01 - Introduction to ISA

02 - CISC and RISC

Resource: Additional Resource: What is RISC-V?

03 - Instructions

04 - Number of Addressing

05 - Addressing Modes

06 - Instruction Set Architecture Lecture Materials

Resource: 4.pdf

### Section 06 - CPU Benchmarking

01 - Introduction to CPU Benchmarking

02 - Calculating CPU Time

03 - Understanding CPU Clock

04 - Calculating CPU Time

05 - Exercise - Solving CPU Time Calculations

06 - Exercise - Solving CPI Calculations

07 - CPU Benchmarking Lecture Materials

Resource: 5.pdf

08 - Extra Resource

### Section 07 - CPU Organization and Structure

01 - Introduction to CPU Structure

02 - Registers in CPU

03 - Understanding CPU Interruptions

04 - Techniques to Improve CPU Performance

05 - CPU Organization and Structure Lecture Materials

Resource: 6.pdf

06 - Extra Reading Material

### Section 08 - CPU Pipelining

01 - What is CPU Pipelining

02 - Resource Hazards

03 - Data Hazards

04 - Control Hazards and Branch Prediction

05 - Branch Prediction Strategies

06 - Practical Example for Pipelining - Intel 80486

07 - CPU Overclocking

08 - CPU Pipelining Lecture Materials

Resource: 7.pdf

### Section 09 - Input-Output Organization

01 - Introduction to I/O

02 - I/O Mapping

03 - Asynchronous Data Transfer

04 - Modes of Data Transfer

05 - Input-Output Organization Lecture Materials

Resource: 8.pdf

### Section 10 - Memory Organization

01 - Introduction to Memory Hierarchy

02 - Deep dive into Computer Memory Hierarchy

03 - The Principal of Locality

04 - Memory HIT rate and MISS rate

05 - Cache Performance and Optimization

06 - Exercise - Calculating Miss Rate

07 - Memory Technology

08 - DRAM Technology

09 - How a DRAM Works

10 - DRAM Read Cycle Deeply Explained Step by Step

11 - SDRAM and DDR SDRAM Explained

12 - Memory Organization Lecture Materials

Resource: 9.pdf

Resource: 9.2.pdf

13 - Extra Reading Material

### Section 11 - Hierarchical Bus Organization

01 - Introduction to Hierarchical Bus Structures

02 - Single and Multiple Bus Implementations and Examples

03 - Bus Types, Timing, and Additional Details

04 - Hierarchical Bus Organization Lecture Materials

Resource: 10.pdf

### Section 12 - Course-level Practice Test

### Section 13 - Conclusion

01 - Summary

02 - Course Summary Short Note - Mind Map

Resource: Short Note.pdf

## Course ID: 5752334 HARMONIC PATTERNS ALGO-TRADING WITH PYTHON AND BINANCE&BYBIT

### Section 01 - Introduction

01 - Welcome and Introduction

02 - \*\*\* LEGAL DISCLAIMER (MUST READ !)\*\*\*

03 - Course Overview

### Section 02 - PART 1 : FOUNDATION

01 - PART 1 OVERVIEW

02 - Downloads for PART 1

Resource: PART 1 RESOURCES.zip

### Section 03 - Algorithmic trading, Cryptocurrencies and Binance

01 - Why Algorithm trading?

02 - Trading and Investment

03 - What is Cryptocurrency?

04 - Why Trading Cryptocurrency?

05 - Why using Binance?

06 - Spot Trading and Futures Trading

### Section 04 - A Deep Introduction to Cryptocurrency Trading and Investing with Binance.

01 - Binance.com - Quick Overview

02 - Registration and Identification

03 - How to Deposit and withdraw

04 - Types of Orders - Market Orders

05 - Limit Orders

06 - Stop-loss Orders/Stop-limit Orders

07 - OCO Orders

08 - The Order Book

09 - Takers and Makers

10 - Bid-Ask Spread and Slippage

### Section 05 - Installing Anaconda and Pycharm

01 - Introduction

02 - Downloading and Installation of Anaconda

03 - Downloading and Installation of Pycharm

04 - How to work with Pycharm

### Section 06 - Trading with Python and Binance API

01 - OVERVIEW

02 - Getting the Binance API Key

03 - Installing the Binance API Wrapper

04 - Connecting to the API Server

05 - How to retrieve general account Infomation

06 - Getting current Market Data

07 - How to Load Historical Data from Website

08 - Loading the Historical Data by Python

09 - Loading the Historical Data via the API

10 - Streaming real-time Market Data - PT 1

11 - Streaming real-time Market Data - PT 2

12 - Streaming and Collecting real-time Candles - PT 1

13 - Streaming and Collecting real-time Candles - PT 2

14 - Creating a Test Order

15 - The Binance Spot Test Network/Creating a connection to the Spot Testnet

16 - Spot Testnet API(Overview) - PT 1

17 - Spot Testnet API(Overview) - PT 2

18 - Spot Testnet API(Overview) - PT 3

19 - Placing Market Order (Buy and Sell) - PT 1

20 - Placing Market Order (Buy and Sell) - PT 2

21 - Placing Limit Order - PT 1

22 - Placing Limit Order - PT 2

23 - Getting all Orders and Trades

### Section 07 - PART 2 : BULDING THE HARMONIC PATTERNS STRATEGY

01 - OVERVIEW

02 - Downloads for Part 2

Resource: PART\_2\_RESOURCES.zip

### Section 08 - THE HARMONIC PATTERNS

01 - What are Harmonic Patterns?

02 - Why Harmonic Pattern?

03 - Fibonacci and Golden Ratio

04 - Fib. level, Retracement and Extension

05 - Types of Harmonic Pattern

06 - The Gartley Pattern

07 - The Cypher Pattern

08 - The Butterfly Pattern

09 - The Crab Pattern

10 - The Deep Crab Pattern

11 - The Bat Pattern

12 - The Alternate Bat Pattern

13 - The Shark Pattern

14 - The Swan Pattern (White swan and Black swan)

### Section 09 - Building the Strategy

01 - Introduction

02 - Installing the necessary python packages

03 - Getting the Historical Data

04 - Finding the Extrema

05 - Finding the Peaks - PT 1

06 - Finding the Peaks - PT 2

07 - The Pattern Finder

08 - Creating the first Pattern - The Butterfly Pattern - PT 1

09 - Creating the first Pattern - The Butterfly Pattern - PT 2

10 - Creating harmonic\_func file - PT 1

11 - Creating harmonic\_func file - PT 2

12 - The Gartley Pattern

13 - The Cypher Pattern

14 - The Bat Pattern

15 - The Alternate Bat Pattern

16 - The Crab Pattern

17 - The Deep Crab Pattern

18 - The Shark Pattern

19 - The White Swan Pattern

20 - The Black swan Pattern

21 - Cleaning Up Our Code

### Section 10 - Strategy Backtesting Implementation/Backtesting

01 - Strategy Implementation - Creating Orders with our Strategy(Bullish) - PT 1

02 - Strategy Implementation - Creating Orders with our Strategy(Bullish) - PT 2

03 - Strategy Implementation - Creating Orders with our Strategy(Bearish) - PT 3

04 - Backtesting - PT 1

05 - Backtesting - PT 2

06 - Backtesting - PT 3

07 - Backtesting - PT 4

08 - Trading Costs

### Section 11 - Strategy Optimization and Forward Testing

01 - Introduction - Strategy Optimization - PT 1

02 - Strategy Optimization - PT 2

03 - Strategy Optimization - PT 3

04 - Strategy Optimization - PT 4

05 - Backtesting and Forward testing -PT 1

06 - Backtesting and Forward testing -PT 2

07 - Backtesting and Forward testing -PT 3

08 - Backtesting and Forward testing -PT 4

### Section 12 - PART 3 : AUTOMATED SPOT TRADING

01 - Overview

02 - Downloads for Part 3

Resource: Part\_3\_RESOURCES.zip

### Section 13 - Implementation and Automation of the Harmonic Patterns Strategy with Binance

01 - Introduction

02 - Getting Started

03 - Recap: Streaming and Collecting Real-Time Candles

04 - Creating the Harmonic Pattern Class - PT 1

05 - Creating the Harmonic Pattern Class - PT 2

06 - Working with Historical Data and Real- time Data - PT 1

07 - Working with Historical Data and Real- time Data - PT 2

08 - Adding the Harmonic Patterns Strategy

09 - Adding the Harmonic Patterns Strategy(Bullish) - PT 1

10 - Adding the Harmonic Patterns Strategy(Bullish) - PT 2

11 - Adding the Harmonic Patterns Strategy(Bearish) - PT 3

12 - Implementing and Automating our Strategy - PT 1

13 - Implementing and Automating our Strategy - PT 2

### Section 14 - Telegram Messaging Inclusion

01 - Telegram Bot Setup

02 - Sending first message via URL

03 - Sending message through Python

04 - Incorporating telegram into our Strategy

### Section 15 - AWS Cloud Deployment

01 - Introduction

02 - Amazon Web Services (AWS) and how to create a free tier- Overview

03 - How to create an EC2 Instance

04 - How to connect to your EC2 Instance

05 - Getting the Instance ready for Algo-trading - PT 1

06 - Getting the Instance ready for Algo-trading - PT 2

07 - How to run the Scripts in a window command prompt

08 - How to start trading session with batch(.bat)file

### Section 16 - PART 4 : AUTOMATED FUTURES TRADING

01 - Overview

02 - Downloads for Part 4

Resource: PART\_4\_RESOURCES.zip

### Section 17 - Futures Trading

01 - Creating an account on Binance Futures Testnet - First Steps

02 - Our first Futures Trade(Going Long)

03 - Trading with Leverage

04 - Taking a Short Trade

05 - Stop-loss and Take-profit

06 - Exploring Margin Mode : Cross vs Isolated

07 - Position Mode : One way mode vs Hedge mode

### Section 18 - Backtesting the Harmonic Patterns Strategy with Futures .

01 - Introduction

02 - Backtesting without leverage and trading cost in futures trading

03 - Backtesting with leverage and its impact

### Section 19 - Automating the Future Trading Strategy with Binance Futures API

01 - Introduction

02 - The Binance Futures API - PT 1

03 - The Binance Futures API - PT 2

04 - How to change Setting and Mode through Binance API

05 - Placing Market Orders (Long)

06 - Placing Market Orders (Short)

07 - Getting Historical Futures Market Data

08 - Streaming Futures Prices in Real-Time

09 - The Futures Trading Bot - PT 1

10 - The Futures Trading Bot - PT 2

11 - The Futures Trading Bot - PT 3

12 - The Futures Trading Bot - PT 4

13 - The Futures Trading Bot (SL/TP) - PT 1

14 - The Futures Trading Bot (SL/TP) - PT 2

15 - The Futures Trading Bot (SL/TP) - PT 3

16 - The Futures Trading Bot (SL/TP) - PT 4

### Section 20 - PART 5 : API TRADING WITH CCXT

01 - Overview

02 - Downloads for Part 5

Resource: PART\_5\_RESOURCES.zip

### Section 21 - API TRADING WITH CCXT AND BINANCE

01 - Introduction

02 - Preparations

03 - First Steps with CCXT

04 - General Exchange Info(CCXT)

05 - The Public API

06 - Loading Historical Data - PT 1

07 - Loading Historical Data - PT 2

08 - Loading Historical Data - PT 3

09 - Streaming Real-Time Data -PT 1

10 - Streaming Real-Time Data -PT 2

11 - Streaming Real-Time Data -PT 3

12 - Getting Historical Data and Stream live Data - PT 1

13 - Getting Historical Data and Stream live Data - PT 2

14 - Getting Historical Data and Stream live Data - PT 3

15 - Getting Historical Data and Stream live Data - PT 4

16 - The Private API

17 - How to connect to Testnets(Sandbox Mode)

18 - Creating orders and executing trade(Spot)

19 - Creating Orders(Futures) - PT 1

20 - Creating Orders(Futures) - PT 2

21 - A CCXT Spot Trading Bot

## Course ID: 1565838 The Complete Full-Stack Web Development Bootcamp

### Section 01 - Front-End Web Development

01 - What You'll Get in This Course

02 - Download the Course Syllabus

Resource: 2023 Web Dev Syllabus.pdf

03 - Download the 12 Rules to Learn to Code eBook [Latest Edition]

Resource: 12 Rules to Learn to Code [2nd Edition] 2022.pdf

04 - Download the Required Software

05 - How Does the Internet Actually Work?

Resource: Submarine Cable Map

06 - How Do Websites Actually Work?

07 - How to Get the Most Out of the Course

Resource: App Brewery Cornell Notes Template

08 - How to Get Help When You're Stuck

09 - Pathfinder

### Section 02 - Introduction to HTML

01 - A Note About 2023 Course Updates

02 - What is HTML?

03 - How to Download the Course Resources

04 - HTML Heading Elements

Resource: 2.1 Heading Element.zip

Resource: MDN Docs for Heading Elements

Resource: [Windows] How to extract files from Zipped folder

Resource: [Mac] How to extract files from a Zipped folder

05 - HTML Paragraph Elements

Resource: 2.2 Paragraph Element.zip

06 - Self Closing Tags

Resource: 2.3 Void Elements.zip

Resource: Diff Checker

07 - [Project] Movie Ranking

Resource: 2.4 Movie Ranking Project.zip

08 - How to Ace this Course

Resource: Goal Setting Questions.pdf

### Section 03 - Intermediate HTML

01 - The List Element

Resource: 3.0 List Elements.zip

02 - Nesting and Indentation

Resource: 3.1 Nesting and Indentation.zip

03 - Anchor Elements

Resource: 3.2 Anchor Elements.zip

Resource: MDN Docs - Anchor Element

04 - Image Elements

Resource: 3.3 Image Elements.zip

05 - [Project] Birthday Invite

Resource: 3.4 Birthday Invite Project.zip

06 - Tip from Angela - Habit Building with the Calendar Trick

07 - Get Access to the Monthly App Brewery Newsletter

Resource: Subscribe to the Newsletter

### Section 04 - Multi-Page Websites

01 - Computer File Paths

Resource: 4.0 File Paths.zip

02 - What are Webpages?

Resource: 4.1 Webpages.zip

03 - The HTML Boilerplate

04 - [Project] Portfolio Website

Resource: 4.3 HTML Portfolio Project.zip

05 - How to Host Your Website for Free with GitHub

Resource: GitHub

06 - Introduction to Capstone Projects

07 - Instructions for Capstone Project 1 - Online Resume

### Section 05 - Introduction to CSS

01 - Why do we need CSS?

02 - How to add CSS

Resource: 5.1 Adding CSS.zip

03 - CSS Selectors

Resource: 5.3 CSS Selectors.zip

Resource: MDN Docs - List Element

04 - [Project] Colour Vocab Website

Resource: 5.4 Color Vocab Project.zip

05 - Tip from Angela - Dealing with Distractions

06 - Join the Student Community

Resource: Course Fixes: Report an Issue

### Section 06 - CSS Properties

01 - CSS Colours

Resource: 6.0 CSS Colors.zip

Resource: Docs - Named Colours

Resource: RGB Colour Sliders

02 - Font Properties

Resource: 6.1 Font Properties.zip

03 - Inspecting CSS

Resource: CSS Inspection Practice Website

04 - The CSS Box Model - Margin, Padding and Border

Resource: 6.3 CSS Box Model.zip

Resource: Pesticide Extension

05 - [Project] Motivational Poster Website

Resource: 6.4 Motivation Meme Project.zip

### Section 07 - Intermediate CSS

01 - The Cascade - Specificity and Inheritance

Resource: 7.0 CSS Cascade.zip

02 - Combining CSS Selectors

Resource: 7.1 Combining Selectors.zip

03 - CSS Positioning

Resource: 7.2 CSS Positioning.zip

Resource: Pesticide

04 - [Project] CSS Flag

Resource: 7.3 Flag Project.zip

05 - Tip from Angela - Nothing Easy is Worth Doing!

### Section 08 - Advanced CSS

01 - CSS Display

Resource: Demo Website for CSS Display

Resource: 8.0 CSS Display.zip

02 - CSS Float

Resource: 8.1 CSS Float.zip

03 - How to Create Responsive Websites

Resource: 8.2 Responsiveness.zip

Resource: Tasty Basics Example Responsive Website

04 - Media Queries

Resource: 8.3 Media Query.zip

Resource: MDN Docs - Media Query

05 - [Project] Web Design Agency Website

Resource: 8.4 Web Design Agency Project.zip

06 - Tip from Angela - How to Deal with Procrastination

### Section 09 - Flexbox

01 - Display: Flex

Resource: 9.0 Display Flex.zip

Resource: CSS Puns

02 - Flex Direction

Resource: 9.1 Flex Direction.zip

Resource: MDN Docs - CSS Selector Combinators

Resource: MDN Docs - Universal Selectors

03 - Flex Layout

Resource: CSS Tricks - Flexbox Cheatsheet

Resource: Flex Layout

Resource: Flexbox Froggy

04 - Flex Sizing

Resource: Flexbox Sizing Exercise

05 - [Project] Pricing Table

Resource: 9.4 Flexbox Pricing Table Project.zip

06 - Tip from Angela - Building a Programming Habit

### Section 10 - Grid

01 - Display: Grid

Resource: 10.0 Display Grid.zip

02 - Grid Sizing

Resource: 10.1 Grid Sizing.zip

Resource: Grid Sizing Excercise

03 - Grid Placement

Resource: 10.2 Grid Placement.zip

Resource: Grid Garden Exercise

04 - [Project] Mondrian Painting

Resource: 10.3 Mondrian Project.zip

### Section 11 - Bootstrap

01 - What is Bootstrap?

Resource: 11.0 Bootstrap Intro.zip

02 - Bootstrap Layout

03 - Bootstrap Components

Resource: 11.2 Bootstrap Components.zip

04 - [Project] TinDog Startup Website

Resource: 11.3 TinDog Project.zip

### Section 12 - Web Design School - Create a Website that People Love

01 - Introduction to Web Design

Resource: Original Penny Juice

Resource: Rebranded Penny Juice

02 - Understanding Colour Theory

Resource: Color Hunt

Resource: Adobe Color Wheel

03 - Understanding Typography and How to Choose a Font

04 - Manage ATTENTION with effective User Interface (UI) Design

Resource: Design Challenges on Daily UI

Resource: Page inspirations on Collect UI

05 - User Experience (UX) Design

06 - Web Design in Practice - Let's apply what we've learnt!

Resource: Canva

### Section 13 - Capstone Project 2 - Personal Site

01 - Instructions

### Section 14 - Introduction to Javascript ES6

01 - Introduction to Javascript

Resource: Compiled vs Interpreted Explained

Resource: The History of Internet Explorer Comic Strip

02 - Javascript Alerts - Adding Behaviour to Websites

Resource: Writing Good Javascript Guidelines

Resource: The Elements of Style - Wikipedia

03 - Data Types

04 - Javascript Variables

05 - Javascript Variables Exercise Start

06 - Javascript Variables Exercise Solution

07 - Naming and Naming Conventions for Javascript Variables

08 - String Concatenation

09 - String Lengths and Retrieving the Number of Characters

10 - Slicing and Extracting Parts of a String

11 - Challenge: Changing Casing in Text

12 - Challenge: Changing String Casing Solution

13 - Basic Arithmetic and the Modulo Operator in Javascript

14 - Increment and Decrement Expressions

15 - Functions Part 1: Creating and Calling Functions

16 - Functions Part 1 Challenge - The Karel Robot

Resource: Karel Online IDE

17 - The Karel Chess Board Solution

18 - A Quick Note About the Next Lesson

19 - Functions Part 2: Parameters and Arguments

Resource: Javascript Floor Method

20 - Life in Weeks Solution

21 - Functions Part 3: Outputs & Return Values

22 - Challenge: Create a BMI Calculator

23 - Challenge: BMI Calculator Solution

Resource: Course Fixes: Report an Issue

Resource: Math.pow() - MDN

Resource: Javascript round() Method

24 - Tip from Angela - Set Your Expectations

### Section 15 - Intermediate Javascript

01 - Random Number Generation in Javascript: Building a Love Calculator

Resource: Randomness -video by Khan Academy

Resource: Math.random - MDN docs

Resource: Love Calculator

02 - Control Statements: Using If-Else Conditionals & Logic

03 - Comparators and Equality

04 - Combining Comparators

05 - Introducing the Leap Year Code Challenge

06 - Leap Year Solution

07 - Collections: Working with Javascript Arrays

08 - Adding Elements and Intermediate Array Techniques

Resource: Blog - Why can't programmers program?

Resource: Now that's what I call a Hacker.

09 - Who's Buying Lunch Solution

10 - Control Statements: While Loops

Resource: 99 Bottles of beer lyrics

11 - Solution to the 99 Bottles Challenge

12 - Control Statements: For Loops

13 - Introducing the Fibonacci Code Challenge

Resource: Fibonacci challenge Flow Chart

14 - Fibonacci Solution

Resource: Course Fixes: Report an Issue

15 - Tip from Angela - Retrieval is How You Learn

### Section 16 - The Document Object Model (DOM)

01 - Adding Javascript to Websites

02 - Introduction to the Document Object Model (DOM)

Resource: HTML Tree Generator (extension)

Resource: DOM Challenge Starting Files.zip

03 - Solution to the DOM Challenge

04 - Selecting HTML Elements with Javascript

05 - Manipulating and Changing Styles of HTML Elements with Javascript

Resource: DOM Style Javascript property names

06 - The Separation of Concerns: Structure vs Style vs Behaviour

07 - Text Manipulation and the Text Content Property

08 - Manipulating HTML Element Attributes

Resource: Course Fixes: Report an Issue

09 - Tip from Angela - The 20 Minute Method

### Section 17 - Boss Level Challenge 1 - The Dicee Game

01 - Challenge: The Dicee Challenge

02 - Dicee Challenge Step 0 - Download the Skeleton Project

Resource: Dicee Challenge - Starting Files.zip

03 - Dicee Challenge Step 1 - Create an External Javascript File

04 - Dicee Challenge Step 2 - Add Dice Images

05 - Dicee Challenge Step 3 - Create a Random Number

06 - Dicee Challenge Step 4 - Change the <img> to a Random Dice

07 - Dicee Challenge Step 5 - Change both <img> Elements

08 - Dicee Challenge Step 6 - Change the Title to Display a Winner

09 - The Solution to the Dicee Challenge

10 - Download the Completed Website

Resource: Course Fixes: Report an Issue

Resource: Dicee Challenge - Completed.zip

11 - Tip from Angela - Learning Before you Eat

### Section 18 - Advanced Javascript and DOM Manipulation

01 - What We'll Make: Drum Kit

02 - Download the Starting Files

Resource: Drum Kit Starting Files.zip

03 - Adding Event Listeners to a Button

Resource: Adding Event Listeners

Resource: Events and Event Listeners

04 - Higher Order Functions and Passing Functions as Arguments

Resource: Javascript Wikipedia

05 - Higher Order Function Challenge Solution

06 - How to Play Sounds on a Website

Resource: Playing Audio With Javascript - Stackoverflow

Resource: HTML Audio Element

07 - How to Use Switch Statements in Javascript

08 - A Deeper Understanding of Javascript Objects

09 - Objects, their Methods and the Dot Notation

10 - A Quick Note About the Next Lesson

11 - Using Keyboard Event Listeners to Check for Key Presses

Resource: Events and Event Listeners

Resource: Creating and Triggering Events

Resource: Keypress Event

12 - Understanding Callbacks and How to Respond to Events

Resource: Javascript Wikipedia

13 - Adding Animation to Websites

Resource: Javascript Timeout Function

Resource: W3schools SetTimeout() Demo

14 - Download the Completed Website

Resource: Course Fixes: Report an Issue

Resource: Drum Kit Completed.zip

15 - Tip from Angela - Dealing with Lack of Progress

### Section 19 - jQuery

01 - What is jQuery?

02 - How to Incorporate jQuery into Websites

Resource: Download Jquery

Resource: Google Hosted Libraries

03 - How Minification Works to Reduce File Size

Resource: Minified Jquery

Resource: minifier.org

04 - Selecting Elements with jQuery

05 - Manipulating Styles with jQuery

06 - Manipulating Text with jQuery

07 - Manipulating Attributes with jQuery

08 - Adding Event Listeners with jQuery

Resource: Events and Event Listeners

09 - Adding and Removing Elements with jQuery

10 - Website Animations with jQuery

Resource: Course Fixes: Report an Issue

Resource: jquery Effect Methods

Resource: jQuery Animate Slide

11 - Tip from Angela - Mixing Knowledge

### Section 20 - Boss Level Challenge 2 - The Simon Game

01 - What You'll Make: The Simon Game

02 - Play the Game

03 - Step 0 - Download the Starting Files

Resource: Simon Game Challenge Starting Files.zip

04 - Step 1 - Add Javascript and jQuery

05 - Step 1 - Answer

Resource: Simon Game Challenge Step 1 Answer.zip

06 - Step 2 - Create A New Pattern

07 - Step 2 - Answer

Resource: Simon Game Challenge Step 2 Answer.zip

08 - Step 3 - Show the Sequence to the User with Animations and Sounds

09 - Step 3 - Answer

Resource: Simon Game Challenge Step 3 Answer.zip

10 - Step 4 - Check Which Button is Pressed

## Course ID: 3652610 Reading the markets with MC4 trading system

### Section 01 - Reading the markets with MC4

01 - The MC4 system

02 - The Money in the market and the operators

03 - Reading the market with MC4

04 - Static analysis of open interest

05 - Dynamic analysis of changes in options open interest

06 - Analysis of open interest of future

07 - Cumulative distribution of open interest

08 - Prices and volumes

09 - Volatility analysis with MC4

10 - Case study with MC4

## Course ID: 5573566 The Complete NUXT 3 Bootcamp: Full-Stack Guide

### Section 01 - Introduction to this Masterclass

01 - What you are going to get from this Nuxt JS Masterclass

02 - How to succeed in this Masterclass

03 - Course Outlines

04 - The tools that we are going to need in this Masterclass (All free)

05 - How to download files from the Udemy Resources tab

06 - How to solve the Coding Exercises

07 - Join our Discord community

08 - The source code for the whole course

09 - One More Thing!!!

### Section 02 - Introduction to NuxtJS

01 - What is Nuxt JS Conceptually?

02 - What is NuxtJS Technically?

03 - What do we mean by 'Rendering a web page'?

04 - Server-Side Rendering VS Client-Side Rendering

05 - How Client-Side Rendering and Server-Side Rendering work?

06 - A Coding Example on Server-Side Rendering

07 - What is Universal Rendering? and why Nuxt uses it?

08 - What do we mean by 'MORE CONTROL' in Client-Side Rendering

09 - Nuxt VS Vue

### Section 03 - NuxtJS Fundamentals [Part 1] (Installation, Views, Routing, Styling and more...)

01 - What are we going to do in the upcoming sections [Labeled NuxtJS Fundamentals]

02 - Installation: Setting up any Nuxt Project

03 - Installing some useful VScode extensions [Optional]

04 - Configuration in Nuxt JS

05 - Nuxt Devtools

06 - Views: app.vue file

07 - Coding Exercise (Create a "Hello World" app) {Prompt}

08 - Coding Exercise (Create a "Hello World" app) {SOLUTION}

09 - Views: Vue Components

10 - Coding Exercise (Creating a NavBar Component) {Prompt}

11 - Coding Exercise (Creating a NavBar Component) {Solution}

12 - Routing: Pages

13 - Routing: Route groups

14 - Coding Exercise (Defining Pages for NavBar Items) {Prompt}

15 - Coding Exercise (Defining Pages for NavBar Items) {Solution}

16 - Routing: Navigation

17 - Coding Exercise (Adding Navigation Links to NavBar Items) {Prompt}

18 - Coding Exercise (Adding Navigation Links to NavBar Items) {Solution}

19 - Routing: Route parameters

20 - Routing: Route parameters ($route)

21 - Routing: Route parameters (catch all routes)

22 - Coding Exercise (Create a Route for Personalized Greetings) {Prompt}

23 - Coding Exercise (Create a Route for Personalized Greetings) {Solution}

24 - Routing: Route middleware (Part 1)

25 - Routing: Route middleware (Part 2)

26 - Routing: Route middleware (Part 3)

27 - Routing: Route middleware (Part 4)

28 - Routing: Route validation

29 - Views: Layouts

30 - Lazy Loading in Nuxt 3 (Dynamic Imports)

31 - Assets

32 - Styling

33 - SEO and Metadata

34 - Transitions

### Section 04 - NuxtJS Fundamentals [Part 2] (Data Fetching)

01 - Data Fetching: What is Data Fetching?

02 - What is an API ( A video from our YouTube Channel ) [Optional Lecture]

03 - Data Fetching: useFetch() composable (How does it work?)

Resource: Fakestore API website

04 - Data Fetching: useFetch() composable (Adding Dynamic URLS)

05 - Data Fetching: useFetch() composable (De-Duplicating Fetch Requests)

06 - Data Fetching: useFetch() composable (Adding a Base URL)

07 - Data Fetching: useFetch() composable (Doing a POST Request)

08 - Data Fetching: useFetch() composable (Doing a PUT Request)

09 - Data Fetching: useFetch() composable (Doing a PATCH Request)

10 - Data Fetching: useFetch() composable (Adding query or params)

11 - Data Fetching: useFetch() composable(Avoid fetching data on the server)

12 - Data Fetching: useFetch() composable (lazy option)

13 - Data Fetching: useFetch() composable (immediate option)

14 - Data Fetching: useFetch() composable (default option)

15 - Data Fetching: useFetch() composable (transform option)

16 - Data Fetching: useFetch() composable (pick option)

17 - Data Fetching: useFetch() composable (watch option)

18 - Data Fetching: useFetch() composable (getCachedData option)

19 - Data Fetching: useFetch() composable (deep option)

20 - The deep option issue is fixed [Good News]

21 - Data Fetching: useFetch() composable (Return Values)

22 - Coding Exercise (Create a currency converter App using useFetch() ) {Prompt}

23 - Coding Exercise (Create a currency converter App using useFetch() ) {Solution}

24 - Data Fetching: $fetch() Library

25 - Data Fetching: useAsyncData() composable

### Section 05 - NuxtJS Fundamentals [Part 3] (State Management)

01 - useState() Composable

02 - Shared State

03 - Creating a shared State Composable

04 - shallowRef State

05 - Coding Exercise (Build a Todo Web App using useState()) {Prompt}

06 - Coding Exercise (Build a Todo Web App using useState()) {Solution}

### Section 06 - NuxtJS Fundamentals [Part 4] (Error Handling)

01 - Error Pages

02 - createError()

03 - clearError()

### Section 07 - NuxtJS Fundamentals [Part 5] (Nitro Server)

01 - The server directory

02 - Server Routes

03 - Server Route Parameters

04 - Catching all routes on the server-side

05 - Body Handling

06 - Query Parameters

07 - Matching HTTP Method

08 - Server Middleware

09 - Runtime Config and .env file

10 - Important note on runtime config and .env file

11 - Request Cookies

12 - Sending Redirect

### Section 08 - NuxtJS Fundamentals [Part 6] (Testing in Nuxt JS)

01 - Why Testing is very important?

02 - Adding all test utilities and libraries

03 - Using Vitest

04 - Using Vue Test Utilities

05 - Using Nuxt Test Utilities

### Section 09 - NuxtJS Fundamentals [Part 7] ( Authentication of Users in Nuxt 3 using Supabase)

01 - What is Authentication in Web Development?

02 - What is supabase?

03 - How does Authentication with Supabase works Conceptually

04 - Establishing the connection between our Nuxt app and Supabase

05 - Allowing users to Register to our Nuxt App using Supabase

06 - Allowing users to Logout from our Nuxt App using Supabase

07 - Allowing users to Login to our Nuxt App using Supabase

08 - Allowing users to Login with their Google or GitHub Accounts

### Section 10 - NuxtJS Fundamentals [Part 8] ( Deployment of Nuxt JS Apps )

01 - Running the production build locally on your computer

02 - Deploying any Nuxt App to the Internet

### Section 11 - Build and Deploy a Movie Info App (Cinemate) using Nuxt 3 and Tailwind CSS

01 - What are we going to build in this project

02 - Setting up the Project

03 - Exploring the Movie DB website and getting our free API key

04 - Defining the Pages of our app

05 - Defining the components of our app

06 - Defining the layouts of our app

07 - Creating the MovieCard component

08 - Creating the SeriesCard component

09 - Creating the default layout of the project

Resource: logo.png

10 - Fetching the 'Discover movies and series' data on the server-side

11 - Creating the home page of the App [Discover Movies Page]

12 - Fetching the 'Now Playing' data on the server-side

13 - Creating the page that will display the 'Now Playing' data on the client-side

14 - Fetching the 'popular' data on the server-side

15 - Creating the page that will display the 'popular' data on the client-side

16 - Fetching the 'search' data on the server-side

17 - Creating the page that will display the search results on the client-side

18 - Fetching the 'Top Rated' data on the server-side

19 - Creating the page that will display the 'Top Rated' data on the client-side

20 - Fetching the 'Upcoming' data on the server-side

21 - Creating the page that will display the 'Upcoming' data on the client-side

22 - Creating the page that will display a single item

23 - Deploying Cinemate App to the Internet on Netlify

24 - Fixing a Bug in Cinemate App

25 - The source code for Cinemate App (on Github)

### Section 12 - Build and Deploy an API Service (Randoms) with documentation using Nuxt & Docus

01 - What are we going to build in this project

02 - Setting up the project

03 - Setting up our API endpoints

04 - Exploring api ninjas and getting an API key

05 - celebrities API Endpoint

06 - posts API Endpoint (Get all posts)

07 - posts API Endpoint (adding a new post)

08 - posts API Endpoint (getting a specific post)

09 - posts API Endpoint (editing a specific post)

10 - posts API Endpoint (editing part of a specific post)

11 - posts API Endpoint (deleting a post)

12 - products API Endpoints (Get all products)

13 - products API Endpoint (adding a new product)

14 - products API Endpoint (getting a specific product)

15 - products API Endpoint (Editing a specific product)

16 - products API Endpoint (Getting all categories)

17 - products API Endpoint (Getting a specific category type)

18 - Writing the documentation for our APIs using markdown

19 - Deploying Randoms App to Netlify

20 - The source code for Randoms App (on Github)

### Section 13 - Build and Deploy a fully functioning E-commerce App (Shopiverse) using Nuxt 3

01 - What are we going to build in this project

02 - Setting up the Project (The dependencies and the Database setup)

03 - Fixing some issues

Resource: Source code

04 - Defining the UI components of the app

05 - Creating the Header Component

06 - Creating the PublicNav Component

Resource: avatar.png

07 - Creating the UserNav Component

Resource: avatar.png

08 - Creating the ProductComp Component

09 - Creating the Loading Component

10 - Creating the Default Layout of the App (Including applying the dark mode)

11 - Creating the shared state of the App (The Shopping Cart state)

12 - Creating the home page of the App

13 - Creating the API endpoint to fetch products data

14 - Creating the Register Page

15 - Creating the Confirm page

16 - Creating the Logout Page

17 - Creating the login page

18 - Creating login with Google and GitHub functions

19 - Creating the Search Page

20 - Fetching the search results on the server-side

## Course ID: 397068 Selenium Webdriver with PYTHON from Scratch + Frameworks

### Section 01 - Why Python Testing and its Importance?

01 - Why Choose Selenium Python for Test Automation needs?

02 - Glance on Selenium Features

### Section 02 - Complete Installation Guide for Python and Selenium Learning

01 - Video Player Setting tips for Best Experience in viewing course

02 - How to Install Python in your Machine?

03 - Important note for MAC Users

04 - What is PIP Client? -How to download Python Packages

05 - Python, Selenium Installation Guide Download

06 - Install PyCharm Editor and set Project Interpreter

### Section 03 - Getting Started with Python Basics

01 - Where to download Code files of Python topics?

02 - Python hello world Program with Basics

03 - Datatypes in python and how to get the Type at run time

### Section 04 - Understanding Python Datatypes and Variables

01 - List Datatype and its operations to manipulate

02 - Tuple and Dictionary Data types in Python with examples

03 - How to Create Dictionaries at run time and add data into it

### Section 05 - Program Flow Control in Python

01 - If else condition in python with working examples

02 - How loops work in Python and importance of code idendation

03 - Programming examples using for loop - 1

04 - Programming examples using While loop - 2

05 - What are functions? How to use them in Python

### Section 06 - Understand Object Oriented Principles of Python

01 - OOPS Principles : Classes and objects in Python

02 - What is Constructor and its role in Object oriented programming Rec-10-19-5

03 - Inheritance concepts with examples in Python Rec 10-19-19 6

04 - Strings and its functions in python

05 - Code files download

Resource: pythonBasics.zip

### Section 07 - Read & Write to Files in Python

01 - How to read text file content using Python

02 - Importance of readLine and readLines Methods in python

03 - Writing Data into File using Python

### Section 08 - Exception Handling Mechanism in Python

01 - How to raise exception in Python?

02 - Try Catch Mechanism using Python

03 - Usage of Finally Keyword with exceptions

### Section 09 - Selenium Python package Setup with different browsers execution

01 - Where to download code files?

02 - Invoking Chrome Browser and understand the importance of Service class

03 - Running Tests in Chrome, Firefox, Edge on basic WebDriver Methods

04 - code download

### Section 10 - Different Types of Locators in WebDriver API with examples

01 - Inspecting HTML to identify attributes of element

02 - Introduction to CSS Selector and name locators with example

03 - Finding Elements with Xpath and Css Using Chropath Plugin

04 - Extracting Text from webPage with Validation Assertions

### Section 11 - Python API->Techniques to automate Web elements

01 - Web applications to Practise Selenium Automation

02 - Identifying Static dropdowns using Select class of selenium

03 - Handling AutoSuggestive Dynamic dropdowns using Selenium Webdriver

04 - Get Attribute of values to validate dynamic texts on the browser

05 - Handling CheckBox dynamically using Selenium Python programming

06 - Understand radiobutton Automation methods with examples

07 - Handling Java / JavaScript Alert popups using Selenium

08 - Code (Section 9,10,11) download

Resource: code-Part1.zip

### Section 12 - Synchronization (Explicit & Implicit Waits) in Selenium webdriver

01 - What are waits? And Practise WebPage Demo for Automation

02 - Developing End to End Testcase to Automate ecommerce GreenKart Application

03 - What is Impilicit Wait in Selenium? And its advantages

04 - What is Explicit Wait in Selenium? And Example to demonstrate

05 - Where to download code files?

### Section 13 - Deep Dive into Functional Automation using Python

01 - Functional Automation example on GreenKart application - 1

02 - Assignment - 2 Exercises

03 - Functional Automation example on GreenKarts application - 2

04 - Code download for Section 12 & 13

Resource: waitDemo.py

Resource: explicitwaitDemo.py

### Section 14 - Handling Advanced User Interactions and Child windows, Frames

01 - Advanced Interactions with Browser elements using Actions class Rec 11-07-19 2

02 - Techniques to handle Child Windows/Tabs with Selenium

03 - What are Frames and techniques to handle with Selenium

### Section 15 - Selenium Python Miscellaneous

01 - What is JavaScript executor? Where do we need it in selenium

02 - How to Sort the Web tables using Selenium Python -Logic build

03 - What are Chrome Options and importance of them in Selenium

Resource: chromeOptionsDemo.py

### Section 16 - Uploads & Downloads with Selenium Python and Libraries to work with excel docs

01 - How this section is organized into 2 parts - Know more

02 - Tutorial on reading/writing into excel using Python Libraries

03 - How upload & Download works in Selenium Python with an example

04 - Generating smart xpaths to query table data dynamically wth selenium

05 - Build excel utils to update the excel files and upload it back to web portal

06 - Code download

### Section 17 - End to End Practise Project with Complete methods in Selenium

01 - Selecting a Product from list of products with Product Name parameter

02 - Complete Checkout Logic with Product selection example

03 - Handling Auto suggestive dropdown to select Location and confirm order

04 - CODE DOWNLOAD ( Section 9 - Section 16)

Resource: pythonTesting.zip

### Section 18 - Part 1 - Learn Pytest Fundamentals - Unit Testing Framework of Python

01 - Framework Learning Plan - Must watch

02 - What is Pytest and its advantages

03 - Running Pytests from Terminal with different command flags

04 - How to run selected Pytests from set of Tests

05 - Grouping tests with pytest marks to run selected group

06 - What are fixtures and their importance in pytest framework

07 - Importance of Conftest file & Scope of fixtures for building Generic fixtures

08 - Introduction to Data driven Fixtures to load data into tests

09 - Parameterizing test with multiple data sets using Fixtures

10 - Generating HTML reports for Pytest Testcases

### Section 19 - Part 2 - Framework Design overview and setting up Browser instance fixtures

01 - Framework code download

Resource: pythonTesting 2.zip

02 - Overview of the Framework design goals and get started with the Test file

03 - Understand implementing Browser Instance fixture from global conftest file

04 - Command line options to drive the environment variables at run time into test

05 - Understand how setup and teardown works with Pytest fixtures for Browser tests

### Section 20 - Part 3 - Implement Page object Design Pattern and Data driven/parameterization

01 - Understand how Page object Pattern works and get started with login Page

02 - How to smartly return the object of the Page class from the action method

03 - Apply the Page object design pattern to the complete end to end test

04 - Understand writing test data as Json format and read the file in the test

05 - How to read python object and extract data using Pytest parameterize fixture

### Section 21 - Part 4 - Apply Tags to run selected Tests, Parallel mode and build Utils files

01 - How to run selected tests in the framework - Use Pytest Mark tags.

02 - Creating custom util methods by applying inheritance in the Page object classes

03 - Debug and run the Pytest framework tests using Pycharm IDE with break points

04 - Running the Selenium Pytest Framework tests in parallel mode using Pytest plugin

### Section 22 - Part 5 - Generate HTML reports, Screenshots & Integrate with CI/CD Jenkins Jobs

01 - Generate HTML reports for Selenium Framework with fail Screenshots attached

02 - Review of all command line options into one single command and run the Framework

03 - Install and setup Jenkins to trigger the Selenium Python Framework Job

04 - Create Selenium Python Jenkin Job and apply Parameterization build to run build

05 - Code download

Resource: pythonTesting 2.zip

### Section 23 - Most commonly asked Python and Pytest Programming Interview Questions

01 - How the Interview questions video is designed?

02 - Questions list with Timestap

03 - 75 Mins In detail discussion on most commonly asked Python Interview Questions

### Section 24 - Important Tips for your new job (Must Watch)

01 - Wrapping up - Thankyou Note

02 - How to Showcase your Python Testing experience?

### Section 25 - Appendix - Understanding Version Control System GIT (Bonus Section)

01 - Introduction to GIT

02 - Importance of Github and its uses

03 - Schedule CI/CD Jenkins job to auto trigger based on reg ex expression

04 - Creating Git config and repositories

05 - Understanding Staging and commit in git

06 - Add remote repository and push the committed code

07 - End to end working example on Git commands -1

08 - End to end working example on Git commands -2

09 - Importance of Branching in GIT

10 - How to resolve Merge conflicts with GIT

### Section 26 - BONUS LECTURE

01 - Bonus Lecture. What next?