MasterClass - 02

1. Getting financial data
2. Calculating indicators in python
3. Basics of Trading Systems
4. Hypothesis Testing
5. Portfolio Metrics

1. Getting the Financial Data

Technical Data

Open - High - Low - Close - Volume (Open Interest) (D) {tick data, 1min, 5 min , 1 week , 1mnth, 1 year}

yfinance
alpha vantage
investing.com
kite api

Fundamental Data

Profit After Taxes
EBITDA
Revenue
Sales

Consolidated Data
Standalone Data

2. Calculating Indicators

DMA (50)   I will take the close prices for last 50 trading days and take average.

For consecutive days, the window of close prices will shift forward giving the rolling mean.

3. Basics of Trading Systems

Signal Generation

Risk Management

Account 1

1,000,000 $

I have 3 trading Strategies

30,000 $ on Strategy1
30,000 $ on Strategy 2
30,000 $ on Strategy 3

10,000 $ as a cash

4. Portfolio Performance Metrices

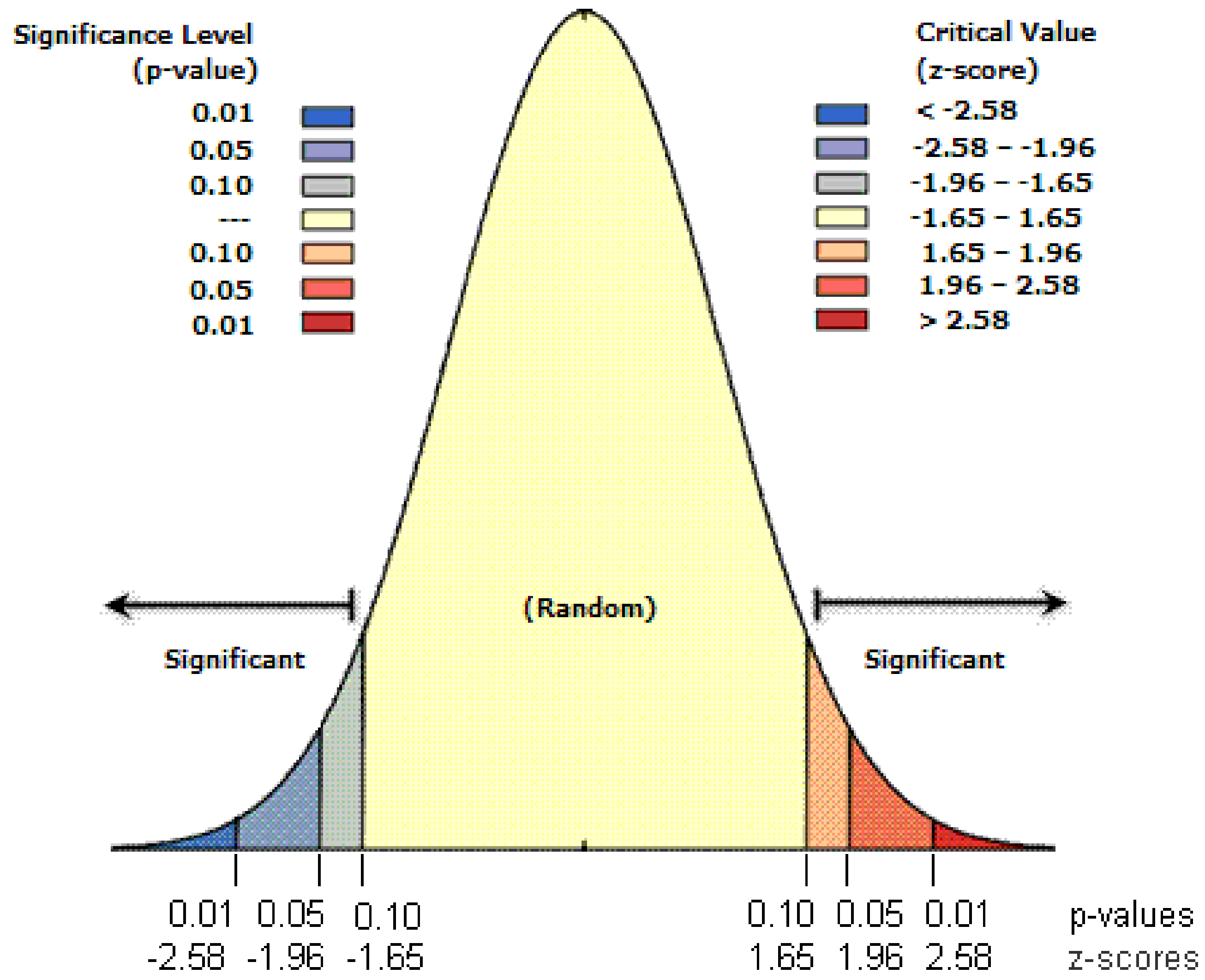
Sharpe Ratio
Sortino Ratio
Maximum Drawdown

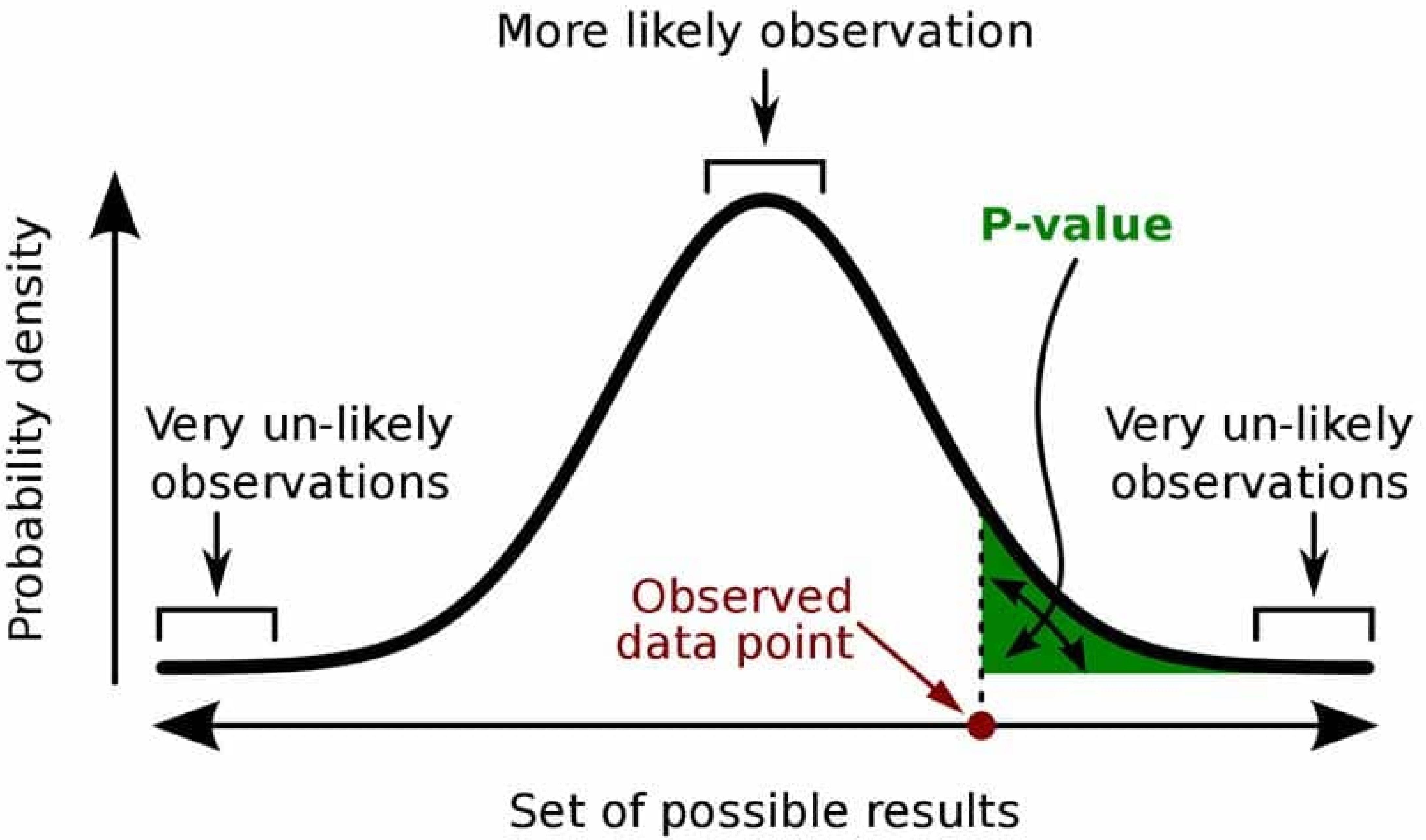
VaR (Value at Risk)
CVar
EVar

5. Capital Allocation & Diversification

50%	10%	70%	-40%	20%	100%	**strategy 1**
25%	18%	23%	29%	17%	14%	**strategy 2**
2012	2013	2014	2015	2016	2017	

6. Hypothesis Testing





A **p-value** (shaded green area) is the probability of an observed (or more extreme) result assuming that the null hypothesis is true.