Machine Learning Basics with Python

Speaker: Shreenivas Kunte, CIPM, CFA

This workshop will prepare participants to venture into a data driven world. It will introduce foundational machine learning concepts that can accelerate and increase the impact of investment decisions. The workshop will be most useful for charter holder members looking to understand machine learning concepts and also those who have the appetite to venture into Python programming.

Learning outcomes:

- Introduce basic Data Science / Machine Learning concepts
- Understand and execute code: Linear regression models using explicit Gradient Descent
- Understand and execute code: Logistic regression models using explicit Gradient Descent
- Understand, devise code to model an Artificial Neural Network
- Understand and execute code for web scraping mutual fund data
- Understand and execute code to use basic technical analysis on Indian stocks
- Introduction to natural language Processing
- Understand and execute code to process news flow
- Multiple-choice test
- Case study discussion

Prerequisites:

- Linear regression concepts (will be provided to registered participants)
- Ensure Python (Anaconda) is installed (help available but we encourage you to try & do the installation yourself)
- Laptop, preloaded version of Anaconda: (Windows should use Windows installation: https://www.anaconda.com/distribution/)
- See attached note for installation instructions (takes about 5 minutes to download and install)
- Those who are new to programming may please refer to the following (or any other primers):
  - https://www.khanacademy.org/computing/computer-programming/programming/intro-to-programming/v/programming-intro (2 minute video)
  - https://www.guru99.com/python-tutorials.html (about 2 hours if you attempt all the sub-blogs)

**YWIP ML Installation Instructions**

Note: Participants are requested to carry their laptops with pre-installed python software.

**EVENT DETAILS:**

DATE: Friday, 20th Sept 2019 | TIME: 3.00 pm (4 hours)
Saturday, 21st Sept 2019 | TIME: TBD (6 hours)
VENUE: Maya Academy Of Advanced Cinematics, 4th Floor Tulsi Tower, Geeta Bhawan Square AB Road, Opp. BRTS Bus stop, South Tukoganj, Indore, Madhya Pradesh 452001

**REGISTRATION:**

CFA Society India members: INR 1000 (Refundable on Attendance)
CFA Charter Pending: INR1500
CFA candidates: INR 2000

Register here: https://in.explara.com/e/datasciencpythonworkshopindore2021sept2019

**ABOUT THE SPEAKER:**

Shreenivas Kunte, CIPM, CFA, is director for continuing education and advocacy at CFA Institute. Shreenivas writes in leading media publications and represents CFA Institute at conferences and forums. Shreenivas codes in Python and has an avid interest in promoting technology use in all fields including finance. Shreenivas serves as an external research scholar at the Indian Institute of Technology Bombay. Prior to joining CFA Institute, Shreenivas worked as the country trading strategist for Citi in Tokyo, Japan.