COURSE OBJECTIVES

Upon successful completion, students will be able to:

• Explore data for business insights using Python packages.
• Distinguish between different modeling techniques and implement them in a hands-on environment.
• Formulate and communicate Python programming-based business solutions and data analytics insights to stakeholders from different functional areas and act as a bridge for inter-disciplinary collaboration.

KEY CONCEPTS

• Data preparation in Python
• Exploratory data analysis in Pandas
• Business analytics tools in Scikit-Learn and PyTorch
• Analytical reasoning through modern statistical techniques
• Discover companies that have incorporated analytics into their core business

COURSE DESCRIPTION

This course is concerned with the nuts and bolts of analyzing and modeling data in Python. The primary goal of the course is to offer a guide to the parts of the Python programming language and its data-oriented library ecosystem and tools that will equip you to become an effective data scientist or analyst. Students will progressively learn how to use analytics with data to add value, through Python code, to companies. Learning will be through hands-on business use cases taken from various fields in tech, DeFi, real-estate, image recognition, quantitative finance etc.