



**NETWORK PROGRAMMING IN
PYTHON***(Specialization Module-SPY201)*
Duration(30-Hours)

- ❖ Introduction
- ❖ Introduction to Client/Server Networking
- ❖ UDP
- ❖ TCP
- ❖ Socket Names and DNS
- ❖ Network Data and Network Errors
- ❖ TLS and SSL
- ❖ Server Architecture
- ❖ Caches, Message Queues, and Map-Reduce
- ❖ HTTP
- ❖ Screen Scraping
- ❖ Web Applications
- ❖ E-mail Composition and Decoding
- ❖ SMTP
- ❖ POP
- ❖ IMAP
- ❖ Telnet and SSH
- ❖ FTP

(Specialization Module-SPY301)
PYTHON FOR DATA ANALYST
Duration(30 Hours)

- ❖ Preliminaries
- ❖ Introductory Examples
- ❖ IPython: An Interactive Computing and Development Environment
- ❖ NumPy Basics: Arrays and Vectorized Computation
- ❖ Getting Started with pandas
- ❖ Data Loading
- ❖ Storage
- ❖ File Formats
- ❖ Data Wrangling: Clean, Transform, Merge, Reshape
- ❖ Plotting and Visualization
- ❖ Data Aggregation
- ❖ Group Operations
- ❖ Time Series
- ❖ Financial and Economic Data Applications
- ❖ Advanced NumPy



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