

Five Days **Online** Workshop

On

**“Integrating Excel and Python for Advanced  
Technical Analysis of Stock Market Data”**

16<sup>th</sup> to 20<sup>th</sup> October 2023

Organized By



**Department of Computer Science and  
Engineering,**

**Indian Institute of Information  
Technology, Nagpur- 441108,  
Maharashtra, India**

<https://www.iiitn.ac.in/>

### **IMPORTANT DATES**

**Beginning of Registration:** 19/09/2023

**Last Date of Registration:** 14/10/2023

**Notification of Acceptance by E-mail:** 15/10/2023



### **PATRONS**

**Hon. Dr. O. G. Kakde**  
Director, IIIT Nagpur

**Shri K. N. Dakhale**  
Registrar, IIIT Nagpur

### **CONVENORS**

**Dr. Mayur Parate**  
Associate Dean, IIIT Nagpur

**Dr. Tausif Diwan**  
HOD, CSE, IIIT Nagpur

### **WORKSHOP COORDINATORS**

**Dr. Jagdish Chakole**  
Assistant Professor, CSE, IIIT Nagpur

**Dr. Anil Kumar Kushwah**  
Assistant Professor, CSE, IIIT Nagpur

**Dr. Aishwarya Ukey**  
Assistant Professor, CSE, IIIT Nagpur

### **ORGANIZING COMMITTEE**

**Dr. Nileshchandra Pikle**  
Asst. Prof, CSE, IIIT Nagpur

**Dr. Amol Bhopale**  
Asst. Prof, CSE, IIIT Nagpur

**Dr. Snehal Shinde**  
Adj. Asst. Prof, CSE, IIIT Nagpur

**Mr. Santosh Kumar Sahu**  
Adj. Asst. Prof, CSE, IIIT Nagpur

### **REGISTRATION DETAILS**

**Registration fees:** ₹1000/- only

**Step1:** Complete the payment transaction and retain the payment receipt (Payment method details can be found in step 2 of the Google form).

**Step2: Register at:**

<https://forms.gle/nm597WzoXfSiQd7D9>

(You have to upload the payment receipt)

### **CONTACT DETAILS**

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## ABOUT THE INSTITUTE

Indian Institute of Information Technology, Nagpur (IIITN) is established under the Public-Private Partnership Scheme by the Ministry of Education (erstwhile Ministry of Human Resource Development), Government of India, and is supported by the Department of Higher Education, Government of Maharashtra, and Tata Consultancy Services, Mumbai as Industry Partner. IIIT Nagpur is recognized as an Institution of National Importance by an Act of Parliament in 2017. IIIT Nagpur started functioning during the year 2016-17, and shifted to its permanent campus sprawling 100 Acres of land near Butibori, Nagpur.

## ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering at IIIT Nagpur offers B.Tech. programme in Computer Science and Engineering, Artificial Intelligence & Machine Learning, Data Science and Analytics and Human Computer Interaction & Gaming Technology. The department provides opportunities for full-time and part-time Ph.D. programs encompassing research in core and emerging fields. The department is equipped with all the state-of-the-art laboratories with the latest technologies and platforms along with best-in-class computing facilities. The department is dedicated to innovation and research in interdisciplinary areas. The department continuously puts valuable efforts into providing the latest state-of-the-art curriculum which can be applied to solve real-time problems in industries and society.

## ABOUT WORKSHOP

Unlock the power of data-driven decision-making in the world of stock trading by seamlessly integrating the capabilities of Excel and Python. In this comprehensive workshop, we delve deep into the realms of advanced technical analysis, equipping participants with the tools and knowledge necessary to navigate the complexities of the stock market.

### KEY WORKSHOP HIGHLIGHTS:

**Harness Excel and Python Synergy:** Learn how to combine the strengths of Excel's spreadsheet prowess with Python's data manipulation capabilities to supercharge your stock market analysis.

**Technical Analysis Mastery:** Explore the intricacies of technical analysis, gaining a deep understanding of candlestick charts, moving averages, RSI, MACD, and other crucial technical indicators.

**Trading Signal Extraction:** Discover techniques to extract meaningful trading signals from stock market data, enabling informed decision-making.

**Strategy Development and Back-Testing:** Develop, back-test, and optimize trading strategies based on the signals obtained, using Excel and Python as your trusted tools.

**Short-Term Trading Expertise:** Dive into the world of short-term trading and explore how technical analysis can be tailored to capitalize on fast-paced market movements.

**Hands-On Practical Sessions:** Apply your knowledge with hands-on exercises and real-world examples, leaving the workshop with practical skills

**Expert Guidance:** Benefit from guidance by experienced instructors who are well-versed in both Excel and Python for financial analysis.

**Networking Opportunities:** Connect with fellow traders, analysts, and enthusiasts, fostering valuable professional relationships.

## COURSE CONTENTS

1. Introduction to Technical Analysis
2. Setting Up the Data Environment
3. Excel for Technical Analysis
4. Python for Technical Analysis
5. Combining Excel and Python
6. Advanced Charting and Visualization
7. Back-testing and Strategy Evaluation
8. Automation and Real-time Analysis
9. Case Studies and Practical Examples
10. Hands-on Workshop Exercises

## RESOURCE PERSON

Faculties from IIITN/VNIT will deliver their expert lectures and hands-on training.

## WHO SHOULD ATTEND?

- Anyone seeking to enhance their stock market analysis skills
- Anyone wishes to upgrade data analysis skill
- Faculty / students of any technical course
- No prior background of coding needed
- Participant should have computer with Internet connection
- Mode of conduction is online only