

## INTENDED AUDIENCE

This workshop is intended for Undergraduate and Postgraduate students from Universities, Private Colleges, Govt Colleges, Consultants, and Private companies.

### EXPERT

- **Prof. Naveen B.P**  
NITTTR, Kolkata
- **Prof. M.A.Jayaram**  
RASTA, Bengaluru



### COURSE FEE

**Registration fee is Rs. 2000**

### REGISTRATION DETAILS

<https://payments.billdesk.com/bdcollect/bd/nittkolkata/10074>

### CONTACT US

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## OBJECTIVES

- To provide participants with a solid understanding of fundamental machine learning concepts and techniques.
- To demonstrate the practical applications of machine learning techniques in various civil engineering domains.
- To equip participants with the skills to implement machine learning models using relevant tools and software.

### TOPICS TO COVERED

- Introduction covariance, correlation, & their significance in ML
- Maximum likelihood, and p-value, its interpretation
- Bootstrapping, and wrapper methods
- Alternative hypothesis and confidence interval
- ANNOVA, and t-tests
- Ridge, loss and elastic net regression and applications in civil engineering
- Bayes's theorem, Fisher's exact test
- PCA & its application in Civil Eng
- SVM & its application in Civil Eng

## SHORT TERM TRAINING PROGRAMME

### MACHINE LEARNING FOR CIVIL ENGINEERING

**Program Code: CU77B**

**ONLINE MODE**

**12th -23rd AUG 2024**



*Organized by*

**Department of Civil Engineering**

