Elm Institute of Business Studies Inc. Texas, USA

Post Graduate Program In Big Data Analytics

Industry Integrated Learning Experience & American Certification

SEMESTER 1

A. INTRODUCTION TO ANALYTICS

- 1. Analytic techniques
- 2. Financial Analytics
- 3. Marketing Pricing Analytics/ Social Network Analysis
- 4. Retail Analytics (Customer Analytics / Supply Chain Analytics)
- 5. Business Fundamentals / Text Analytics

B. INTRODUCTION TO DATA MANAGEMENT

- 1. Introduction to data warehouse and OLAP
- 2. Data types
- 3. Data preparation
- 4. Languages of data science
- 5. Case for business analytics- business intelligence and data mining
- 6. Business problem analyzing using key questions

C. MACHINE LEARNING 1

- 1. Linear regression
- 2. Understand and implement algorithms like K-NN, NAÏVE BAYES, logistic regression
- 3. Clustering

D. MACHINE LEARNING II

- 1. Analytical decision making
- 2. Time Series
- 3. Decision trees
- 4. Theory of entropy and information gain
- 5. Stopping rules, Overfitting problem
- 6. Cross validations, Prunning
- 7. Ensemble learning notation

E. SUPPORT VECTOR MACHINES

- 1. Introduction to SVM
- 2. Non linear SVM

* Subject to minor changes

SEMESTER 2

F. STATISTICS AND PROBABILITY USING R

- 1. R basics
- 2. R functions
- 3. Credit risk
- 4. Data collection
- 5. Extract data in R
- 6. Logistic regression theory R
- 7. Data visualization using R

G. DATA STRUCTURES AND ALGORITHMS USING PYTHON

- 1. Python basics
- 2. Spyder IDE
- 3. Data structure in Python
- 4. Numpy arrays, nd arrays,
- 5. Indexing, processing
- 6. Getting started with Pandas
- 7. Data frame manipulation

H. DATA VISUALIZATION DASH BOARDING USING TABLEAU

- 1. Tableau basics
- 2. Visualization in depth
- 3. Advanced visualization
- 4. Enterprise dash boards data presentation
- 5. Best practices for dash boarding and reporting

I. ADVANCED OPERATIONS RESEARCH USING SPSS/ STAT CRAFT

1. Business forecasting based on historical patterns

J. RELATIONAL DATABASE MANAGEMENT SYSTEMS

1. Big Data & relational database management

* Subject to minor changes

Dual Certification:

- Elm Institute of Managements, Texas, USA.
- Elm Institute of Business Studies, Bangalore

Duration of the Program:

• 300 HRS/ 150 classes / Eligibility : Graduation

Software Tools In The Program:

• R, MYSQL/SQL, Python, Tableau, Hadoop (AWS), SPSS

Highlights:

- Foreign Trips
- Free Laptops And IELTS
- Overseas Career Guidance
- Lowest Fees Structure in Bangalore

Additional Enrichment Services:

- Free C2C training worth INR 8000/-
- Free digital Marketing training and certification worth INR 30,000/-
- Individual certification and customized interview preparations
- live projects and case studies

Fees:

INR: 1,70,000/-

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