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Course Syllabus: Professional Certificate in Data Science

Batch Name: PCDS

Eligibility: 12th

Course Start: 1st of Every Month

Course Duration: 180 Hours

Courses / Modules Paper

Module 1

Paper 1	Paper 2	Paper 3	Paper 4	Paper 5
Python	R Programming	Statistics	Data Scince	Machine Literacy

Paper 1: Python

1.1 Basics of Python and its scope
1.2 Terrain setup
1.3 Jupyter Overview
1.4 Python Numpy
1.5 Python Pandas
1.6 Python Matplotlib

Paper 2: R Programming

2.1 Preface to R
2.2 Data structures in R
2.3 Data visualisation with R
2.4 Data analysis with R

Paper 3: Statistics

3.1 Important statistical generalities used in data wisdom
3.2 Diffrence between population and sample
3.3 Types of variables
3.4 Measures of Central Tendency
3.5 Measures of Variability
3.6 Measures of Friction
3.7 Skewness and Kurtosis

Deducible Statistics

3.1 Normal Distribution
3.2 Test suppositions
3.3 Central limit theorem
3.4 Confidence interval
3.5 T-test
3.6 Type I and II errors
3.7 Student's T distribution

Regression and ANOVA

3.1 Regression
3.2 ANOVA
3.3 R- square
3.4 Correlation and Ocassion

Paper 4: Data Science

4.1 Data visualisation
4.2 Missing value analysis
4.3 The correction matrix
4.4 Outline discovery analysis

Paper 5: Machine Literacy

5..1 Python Scikit tool
5..2 Neutral networks
5.3 Support vector machine
5.4 Logistic and direct regression
5.5 Decision tree classifier

Tableau

5.1 Working with Tableau
5..2 Deep diving with data and connection
5.3 Creating maps
5.4 Mapping data in Tableau
5.5 Dashboards and stories

Machine literacy on Pall

5.1 ML on pall platform
5..2 ML on AWS
5.3 Creating maps
5.4 ML on Microsoft Azure