Certificate in Python Programming (Advanced Level)

Programme Objective

This programme is a skills development programme, which enables students to work with massive amounts of datasets to analyse and explore in the field of data analytics. As the field of data science grows rapidly in the IT industry, this course provides practical hands-on training to develop the skills in the area of machine learning, deep learning as well provide exposure on the advance python libraries.

Who Should Attend?

Applicants must have basic computer knowledge and python programming fundamentals. Applicants with one-year experience in the aforementioned fields will be given priority.

Programme Outcomes

- Develop in depth knowledge of the programme and related concepts
- Write advanced programs for enterprise development
- Use the concepts in machine learning and deep learning
- Filter the data and perform analytics on datasets, to analyse the business requirement
- Develop and demonstrate the industry level, data science projects using advance concepts

Assessment

Continuous Assessment with feedback (diversified) will be used for all courses.

Certificate

Upon successful completion of this course, a certificate of completion will be awarded to candidates.

Duration: Eight (8) weeks

Delivery Mode: The programme will be delivered on full time (day and/or evening, face-to-face and/or Online) in accordance with NUST rule.

Note: The aforementioned programme is not eligible for admission in any degree programme.

Progamme Design

- Python Object Oriented Concepts
- Exception Handling and Assertion
- Data Wrangling, Data Cleaning
- Python Libraries – Pandas, Numpy, Scipy, Scrapy, Plotly, Selenium, Beautiful Soup
- Advanced Analytics: Business Analytics and Decisions
- Exploratory Data Analysis - Visualisation and Exploring Data
- Statistical Measures, Distribution and Sampling
- Predictive Modelling and Analysis
- Feature Selection and Extraction
- Factor Analysis, Directional and Functional Data Analysis
- Project Application

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