



Certificate of Achievement

Dilshad Raza

has completed the following course:

40-Days of Data Science With Python

By

Codanics

in collaboration

- University of Agriculture, Faisalabad, Pakistan
- Pakistan Agricultural Scientists Forum

This online course enabled learners to use Python, Git, and Markdown – for data science and machine learning — to develop participants' understanding with real-world examples and allow them to use publicly available databases to analyze and interpret results. This course also encompassed the development of soft skills to build their online professional presence.

Dr. Muhammad Aammar Tufail

Google Certified Data Analyst
Founder- Codanics,
Pakistan

Dr. Abdul Wakeel

Associate Professor
Institute of Soil and Environmental Sciences,
University of Agriculture, Faisalabad-Pakistan.

Member Board of Directors,
Pakistan Agricultural Scientists Forum

Prof. Dr. Ghulam Murtaza

Director
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Dr. Mutahir Hussain

Registrar,
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Lahore, Pakistan

Iqra Iqbal

Lecturer IT,
Division of Science and Technology,
University of Education, Lahore-Pakistan

Dr. Waqar Baig

Founder,
Scholarship Network Facebook Group,
Pakistan

The person named on this certificate has completed the activities in the attached transcript.



This certificate represents proof of learning. It is not a formal qualification, degree, or part of a degree.

Contact for verification: info@codanics.com

Dilshad Raza

has completed the following course:

40-Days of Data Science With Python

By
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This course covered basic and applied understanding of python for data science. The course also demonstrated the usage of Markdown Language for visually rich notebooks, & Git for code version control. The role of Python for Data Visualization, Data Wrangling, Exploratory Data Analysis, Image & Video Analysis, and Machine Learning was also exhibited using real-life projects.

This course also encompassed the development of soft skills and prepare participants for the on-premises and remote job interviews.

STUDY REQUIREMENT

6 weeks, 30 hours per week

Cod No. *chilla-01-078*

LEARNING OUTCOMES

- Learn the basic syntax of Python Programming Language.
- Utilize Markdown language to build visually appealing notebooks.
- Utilize Git tools for version control and online repositories.
- Understand the Data Structures and their Manipulation.
- Analyze quantitative and qualitative data using Matplotlib, Seaborn & Plotly.
- Exercise Data Wrangling using Scipy, Pandas, and Numpy.
- Interpret results of Data Analysis using Exploratory Data Analysis (EDA) methods.
- Learn to perform the analysis using statistical models.
- Execute the Machine Learning algorithms and test the models.
- Apply Computer Vision with OpenCV for Image and Video Analysis.

SYLLABUS

- Python Syntax
- Markdown
- Git
- Data Structures
- Data Visualization
- Data Wrangling
- Exploratory Data Analysis
- Statistical Analysis
- Machine Learning
 - Supervised
 - Semi-supervised
 - Unsupervised
- Computer Vision

IN COLLABORATION WITH

- University of Agriculture, Faisalabad, Pakistan
- Pakistan Agricultural Scientists Forum
- Talon Institute of Higher Studies
- University of Education, Lahore
- Scholarship Network (Facebook Group)

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This transcript should be read alongside the accompanying Certificate of Achievement.