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BSIS 4B

PROFE8

Certificate 2

Verifiable linked: <https://www.freecodecamp.org/certification/fcc441fc66c-4cb0-4d57-bf6f-b272ee14d3e2/data-analysis-with-python-v7>

Data Analysis with Python

Course Content:

Data Analysis with Python

● Introduction to Data Analysis

● Data Analysis Example A

● Data Analysis Example B

● How to use Jupyter Notebooks Intro

● Jupyter Notebooks Cells

● Jupyter Notebooks Importing and Exporting Data

● Numpy Introduction A

● Numpy Introduction B

● Numpy Arrays

● Numpy Operations

● Numpy Boolean Arrays

● Numpy Algebra and Size

● Pandas Introduction

● Pandas Indexing and Conditional Selection

● Pandas DataFrames

● Pandas Conditional Selection and Modifying DataFrames

● Pandas Creating Columns

● Data Cleaning Introduction

● Data Cleaning with DataFrames

● Data Cleaning Duplicates

● Data Cleaning and Visualizations

● Reading Data Introduction

● Reading Data CSV and TXT

● Reading Data from Databases

● Parsing HTML and Saving Data

● Python Introduction

● Python Functions and Collections

● Python Iteration and Modules

Numpy

● What is NumPy

● Basics of Numpy

● Accessing and Changing Elements, Rows, Columns

● Initializing Different Arrays

● Initialize Array Problem

● Copying Arrays Warning

● Mathematics

● Reorganizing Arrays

● Loading Data and Advanced Indexing

● Data Analysis with Python Projects

● Mean-Variance-Standard Deviation Calculator

● Demographic Data Analyzer

● Medical Data Visualizer

● Page View Time Series Visualizer

● Sea Level Predictor

