



Certificate

No. 903/43/SNBR/BOOTCAMP-KR/III/2023

This is to certify that

Friza Cahya Putra

has mastered

Python Data Science

on December 26th - February 19th, 2023 provided by Sanbercode.

Bandung, February 2023

Sanbercode CEO



A handwritten signature in blue ink, appearing to read "Khairun Rizki", written over the Sanbercode logo.

Khairun Rizki

Skill Report

Name : Friza Cahya Putra
Course : Python Data Science

Technical Skills

Topic	Sub Topic
Python Basic	<ul style="list-style-type: none">• Variable, Data Structure , Iteration, Function
Data Cleaning	<ul style="list-style-type: none">• Pandas & Basic Statistics• Data Cleaning• Conditional & Filtering Data
Data Visualization	<ul style="list-style-type: none">• Visualization with Matplotlib• Visualization with Seaborn• Exploratory Data Analysis
Data Preprocessing	<ul style="list-style-type: none">• Handling & Splitting Data• Data Preprocessing Pipeline• Transform Data
Machine Learning	<ul style="list-style-type: none">• KNN Classification• KNN Regression• Random Forest Classification• Random Forest Regression
Evaluation	<ul style="list-style-type: none">• Classification Metrics• Regression Metrics
Forecasting	<ul style="list-style-type: none">• Forecasting Time Series Data• Time Series Data Visualization