



Certificate

No. 34194/302/SNBR/BOOTCAMP/IX/2022

This is to certify that

dzaky ligarwaly rasendriya

has completed

Python Data Science - Machine Learning & Public Opinion Analysis

on August 08th - September 02nd, 2022 provided by Sanbercode.

Bandung, September 2022

Sanbercode CEO



A handwritten signature in blue ink over a stylized blue Sanbercode logo.

Khairun Rizki

Skill Report

Name : dzaky ligarwaly rasendriya
Course : Python Data Science - Machine Learning & Public Opinion Analysis

Technical Skills

Topic	Sub Topic
Data Management	<ul style="list-style-type: none">• Basic SQL• SQLite• Excel with Python
Get & Clean Data	<ul style="list-style-type: none">• Scraping Web with BeautifulSoup• Tweet with Tweepy• API with Postman• Text Preprocessing• Corpus & Document Term Matrix
Analysis	<ul style="list-style-type: none">• Most & Top Word Data• WordCloud• Basic Graph Analysis with NetworkX• Sentiment Analysis
Machine Learning with Scikit Learn	<ul style="list-style-type: none">• Unsupervised Learning with K-Means• Supervised Learning With KNN & SVM• Sentiment Analysis with Naive Bayes