



Certificate

No. 17862/70/BDG/P-SNBR/CODE/2021

This is to certify that

Jenny Alanna Engka

has completed

Advance Python Data Science - Public Interest Analysis

on December 07th - January 02th, 2021 provided by Sanbercode.

Bandung, January 2021

Sanbercode CEO



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

Khairun Rizki

Skill Report

Name : Jenny Alanna Engka
Course : Advance Python Data Science - Public Interest 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