1. Create a virtual machine on Azure
2. SSH into the virtual machine via powershell (on windows 11)
3. Run sudo apt-get update to update the vm
4. Run sudo apt install python3-pip to enable you install streamlit
5. Run pip3 install streamlit (note: ensure the required version of python is installed on the vm to facilitate the seamless installation of streamlit
6. Modify bashrc file using nano ~/.bashrc and helping the software locate streamlit
7. Pip install pandas
8. Update jinja2 package by running pip3 install jinja2 –upgrade
9. Run “touch covid\_data.py” to create new python file
10. Run nano covid\_data.py to move into the .py file
11. Load various python packages (import streamlit as st; import pandas as pd; import numpy as np)
12. Write code to create a title for the dashboard
13. Save file and exit file editor (nano)
14. Run the code in the python file by (streamlit run covid\_data.py –server.port80 to ensure the 80 is open

<https://covid19.who.int/who-data/vaccination-metadata.csv>