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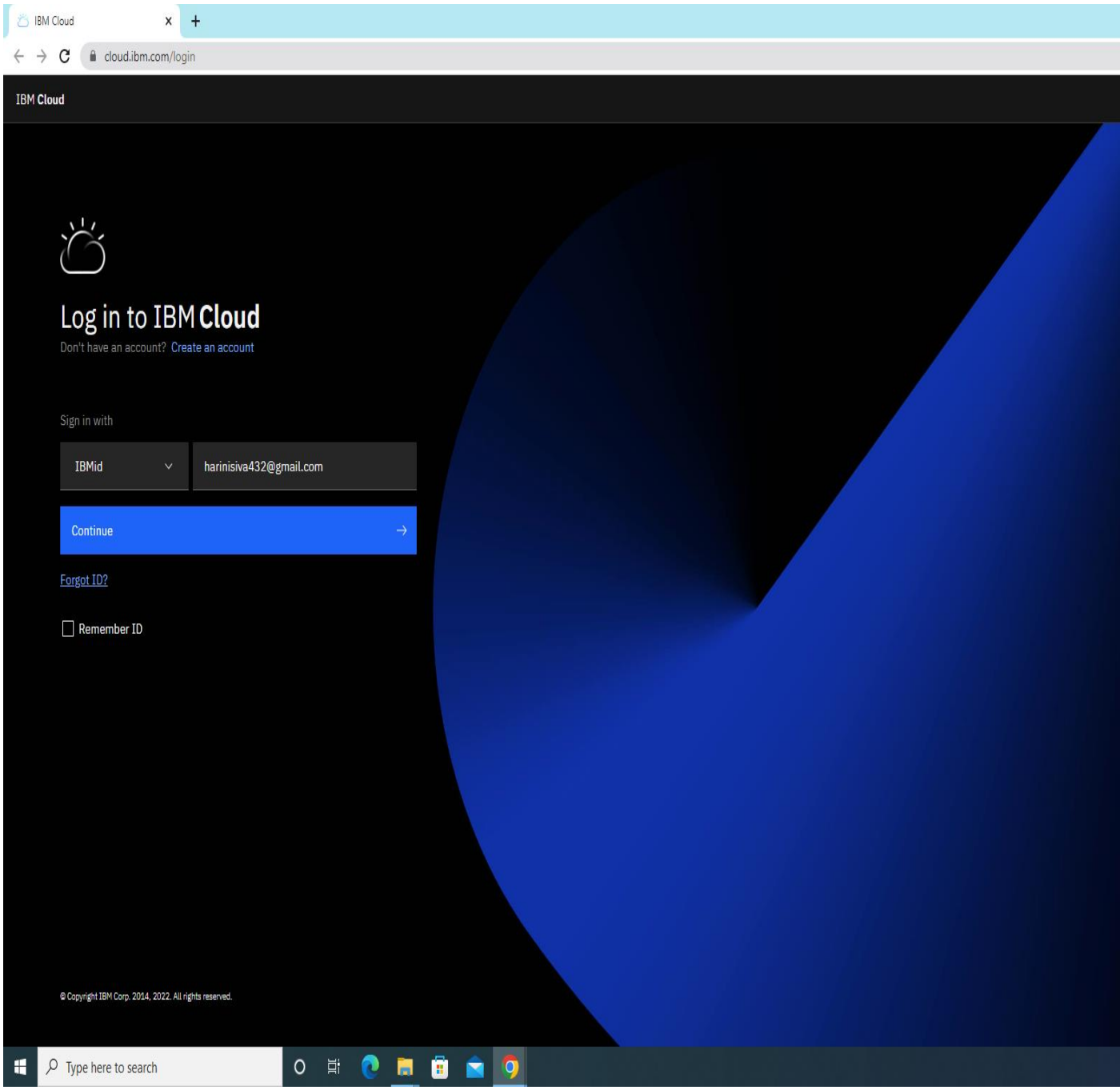

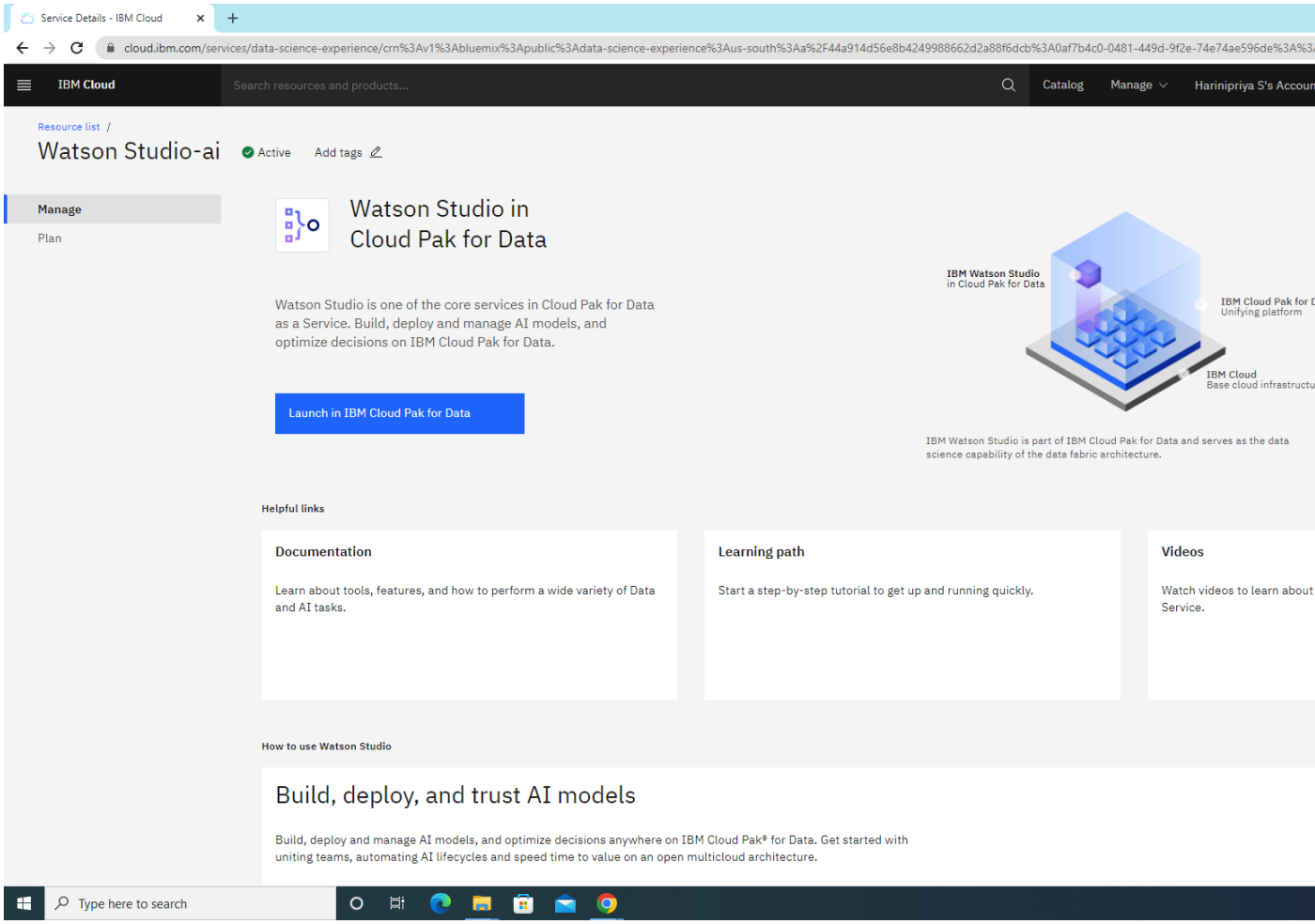
Service Details - IBM Cloud
cloud.ibm.com/services/data-science-experience/crn%3Av1%3Abluemix%3Apublic%3Adata-science-experience%3Aus-south%3Aa%2F44a914d56e8b424988662d2a88f6dcb%3A0af7b4c0-0481-449d-9f2e-74e74ae596de%3A%3
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Watson Studio-ai
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Watson Studio in Cloud Pak for Data
Watson Studio is one of the core services in Cloud Pak for Data as a Service. Build, deploy and manage AI models, and optimize decisions on IBM Cloud Pak for Data.
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IBM Watson Studio in Cloud Pak for Data
IBM Cloud Pak for D
Unifying platform
IBM Cloud
Base cloud infrastructu
IBM Watson Studio is part of IBM Cloud Pak for Data and serves as the data science capability of the data fabric architecture.
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Videos
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Service.
How to use Watson Studio
Build, deploy, and trust AI models
Build, deploy and manage AI models, and optimize decisions anywhere on IBM Cloud Pak® for Data. Get started with uniting teams, automating AI lifecycles and speed time to value on an open multicloud architecture.
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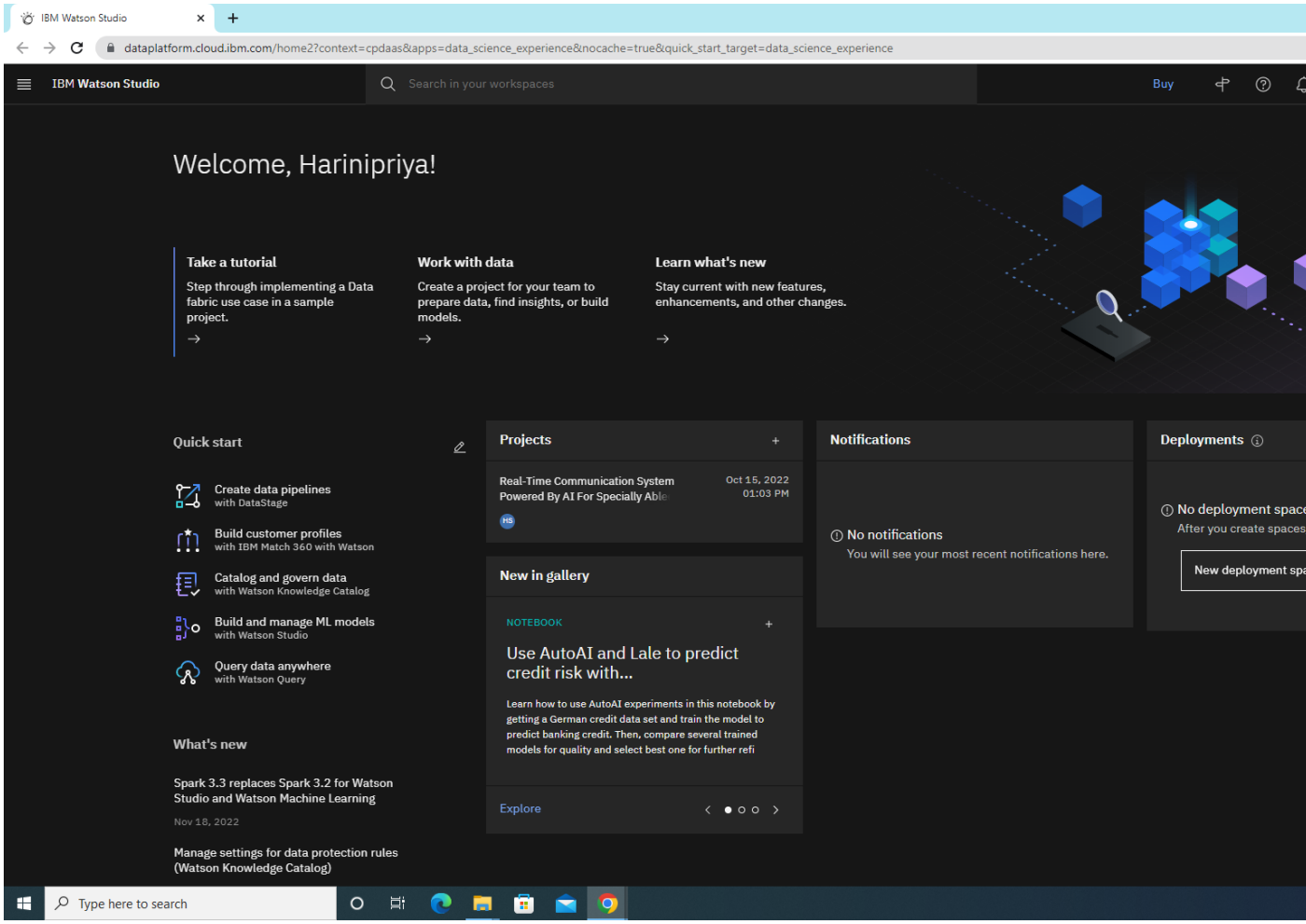
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dataplatform.cloud.ibm.com/home2?context=cpdaas&apps=data_science_experience&nocache=true&quick_start_target=data_science_experience
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Quick start
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Build customer profiles with IBM Match 360 with Watson
Catalog and govern data with Watson Knowledge Catalog
Build and manage ML models with Watson Studio
Query data anywhere with Watson Query
What's new
Spark 3.3 replaces Spark 3.2 for Watson Studio and Watson Machine Learning
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Manage settings for data protection rules (Watson Knowledge Catalog)
Projects
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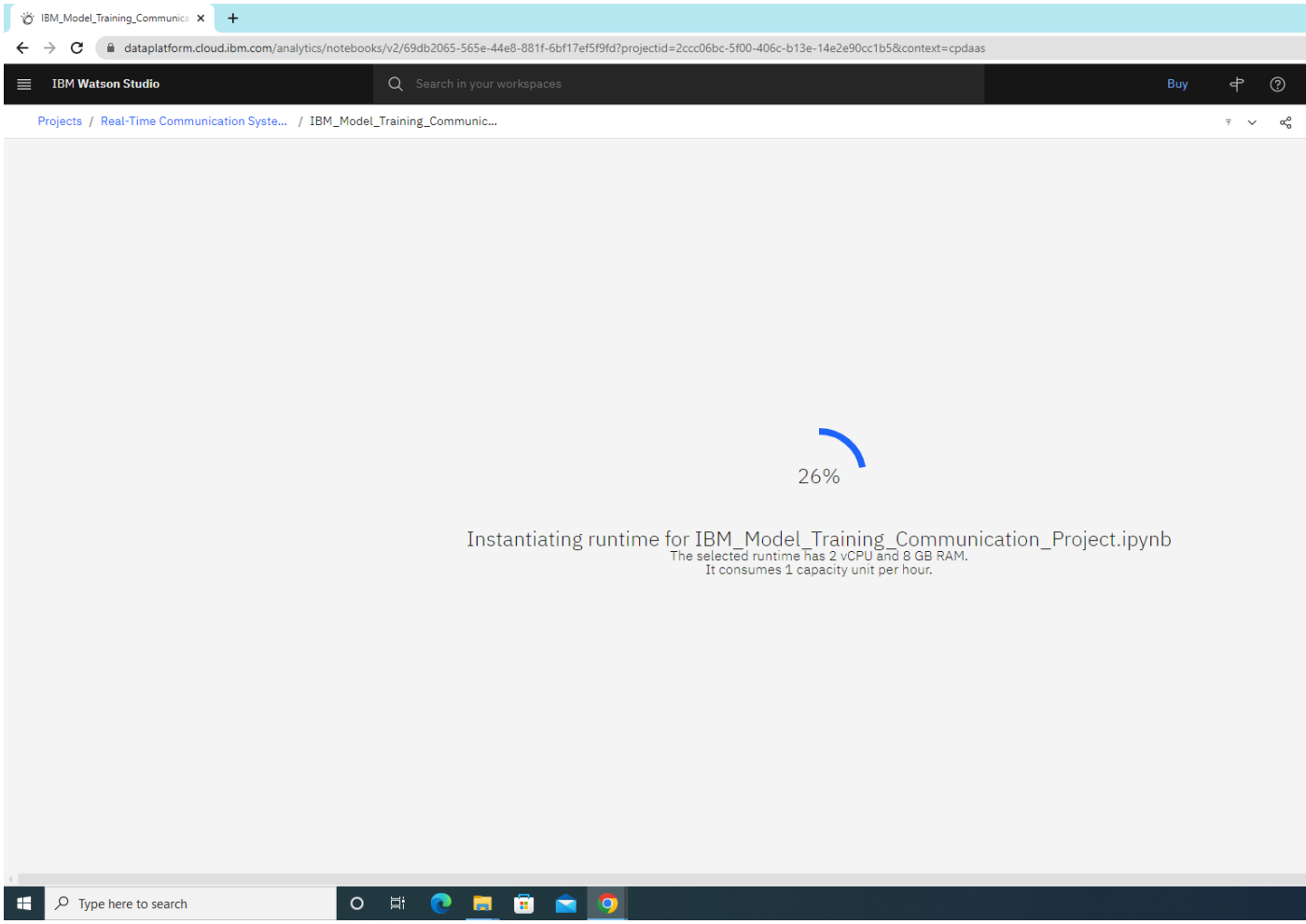
IBM_Model_Training_Communica
dataplatform.cloud.ibm.com/analytics/notebooks/v2/69db2065-565e-44e8-881f-6bf17ef5f9fd?projectid=2ccc06bc-5f00-406c-b13e-14e2e90cc1b5&context=cpdaas
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26%
Instantiating runtime for IBM_Model_Training_Communication_Project.ipynb
The selected runtime has 2 vCPU and 8 GB RAM.
It consumes 1 capacity unit per hour.
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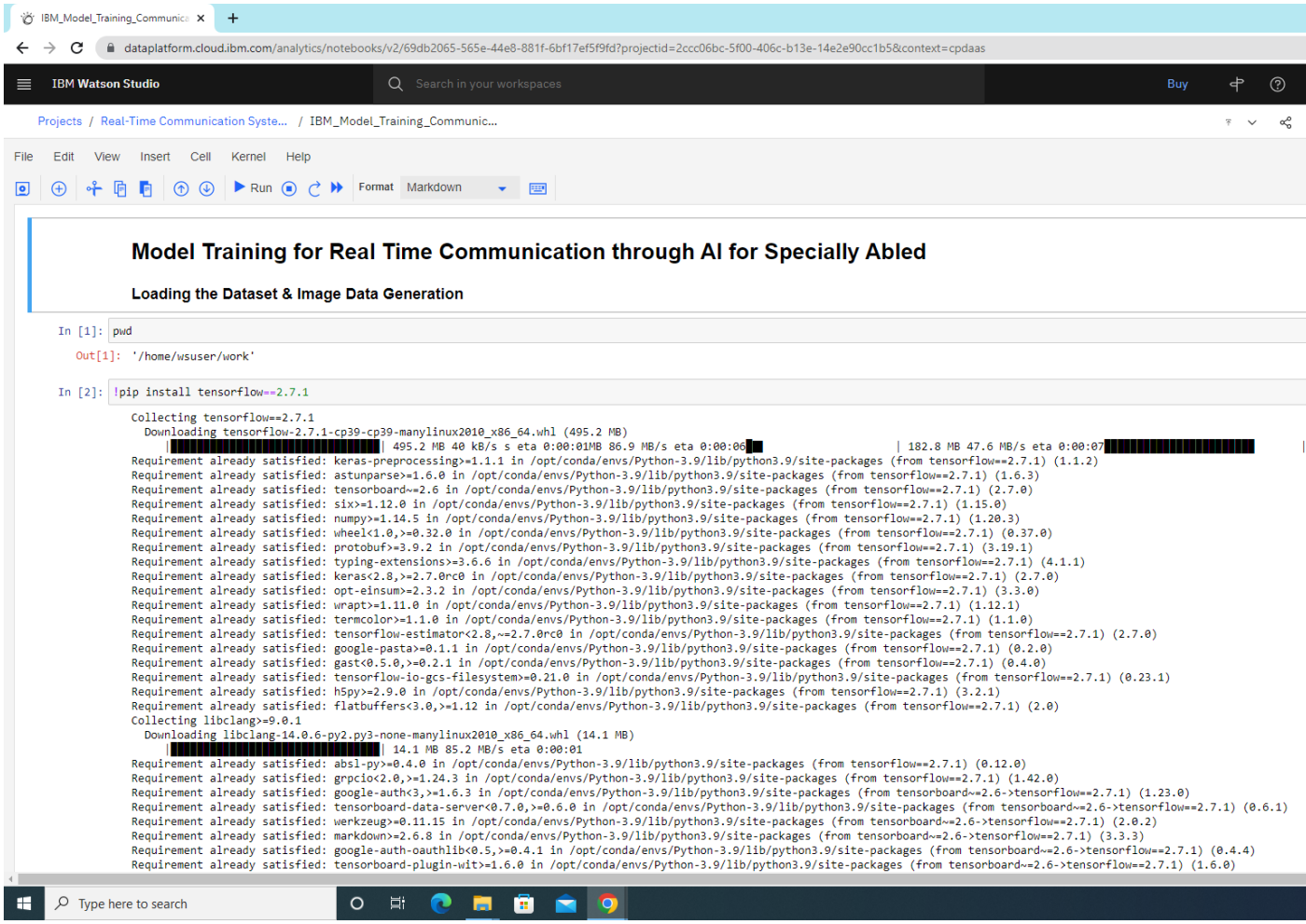
IBM_Model_Training_Communica
dataplatform.cloud.ibm.com/analytics/notebooks/v2/69db2065-565e-44e8-881f-6bf17ef5f9fd?projectid=2ccc06bc-5f00-406c-b13e-14e2e90cc1b5&context=cpdaas
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File Edit View Insert Cell Kernel Help
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Model Training for Real Time Communication through AI for Specially Abled
Loading the Dataset & Image Data Generation
In [1]: pwd
Out[1]: '/home/wsuser/work'
In [2]: !pip install tensorflow==2.7.1
Collecting tensorflow==2.7.1
Downloading tensorflow-2.7.1-cp39-cp39-manylinux2010_x86_64.whl (495.2 MB)
| 495.2 MB 40 kB/s s eta 0:00:01MB 86.9 MB/s eta 0:00:06
| 182.8 MB 47.6 MB/s eta 0:00:07
Requirement already satisfied: keras-preprocessing>=1.1.1 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (1.1.2)
Requirement already satisfied: astunparse>=1.6.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (1.6.3)
Requirement already satisfied: tensorboard~=2.6 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (2.7.0)
Requirement already satisfied: six>=1.12.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (1.15.0)
Requirement already satisfied: numpy>=1.14.5 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (1.20.3)
Requirement already satisfied: wheel<1.0,>=0.32.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (0.37.0)
Requirement already satisfied: protobuf>=3.9.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (3.19.1)
Requirement already satisfied: typing-extensions>=3.6.6 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (4.1.1)
Requirement already satisfied: keras<2.8,>=2.7.0rc0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (2.7.0)
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Requirement already satisfied: wrapt>=1.11.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (1.12.1)
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Requirement already satisfied: tensorflow-estimator<2.8,~=2.7.0rc0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (2.7.0)
Requirement already satisfied: google-pasta>=0.1.1 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (0.2.0)
Requirement already satisfied: gast<0.5.0,>=0.2.1 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (0.4.0)
Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.21.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (0.23.1)
Requirement already satisfied: h5py>=2.9.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (3.2.1)
Requirement already satisfied: flatbuffers<3.0,>=1.12 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (2.0)
Collecting libclang>=9.0.1
Downloading libclang-14.0.6-py2.py3-none-manylinux2010_x86_64.whl (14.1 MB)
| 14.1 MB 85.2 MB/s eta 0:00:01
Requirement already satisfied: absl-py>=0.4.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (0.12.0)
Requirement already satisfied: grpcio<2.0,>=1.24.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.7.1) (1.42.0)
Requirement already satisfied: google-auth<3,>=1.6.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorboard~=2.6->tensorflow==2.7.1) (1.23.0)
Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorboard~=2.6->tensorflow==2.7.1) (0.6.1)
Requirement already satisfied: werkzeug>=0.11.15 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorboard~=2.6->tensorflow==2.7.1) (2.0.2)
Requirement already satisfied: markdown>=2.6.8 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorboard~=2.6->tensorflow==2.7.1) (3.3.3)
Requirement already satisfied: google-auth-oauthlib<0.5,>=0.4.1 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorboard~=2.6->tensorflow==2.7.1) (0.4.4)
Requirement already satisfied: tensorboard-plugin-wit>=1.6.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorboard~=2.6->tensorflow==2.7.1) (1.6.0)
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