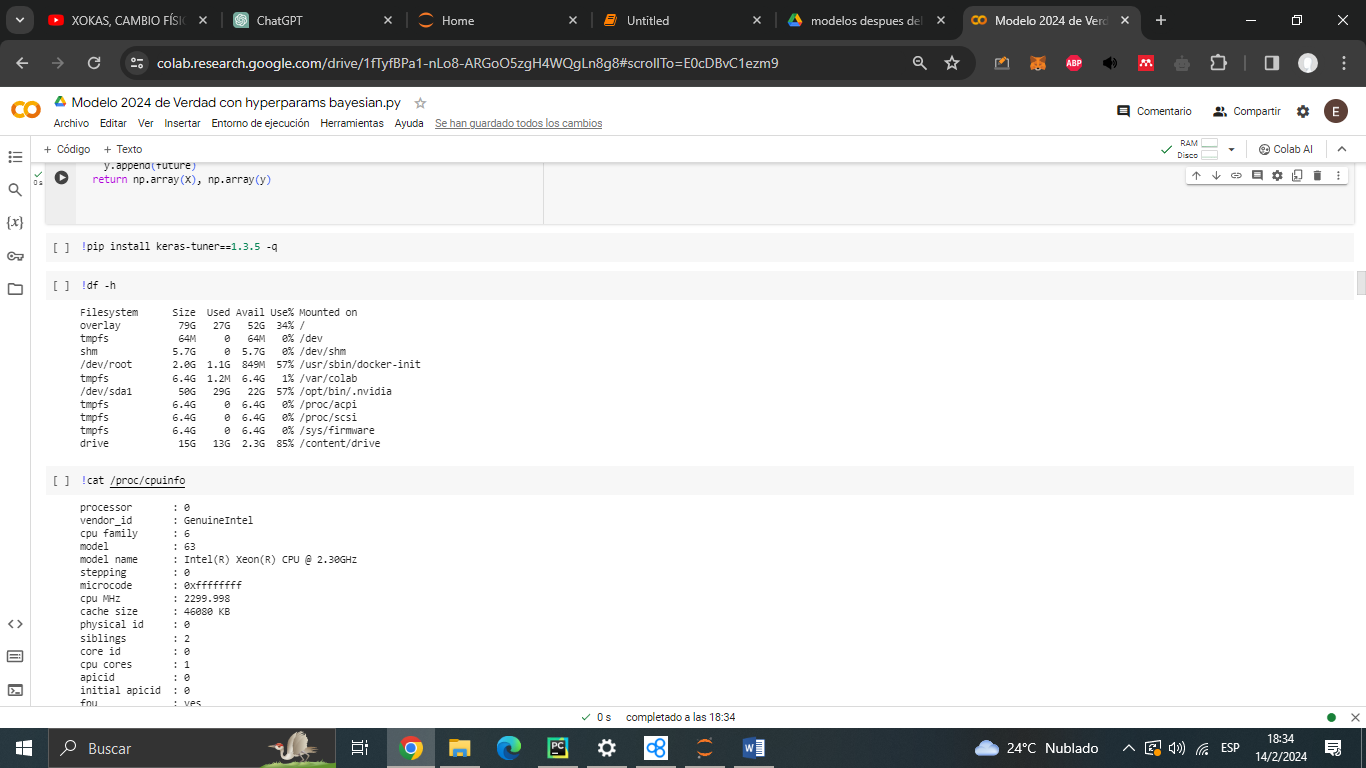
Modelo bayesian hypertuner UA

Tum Transmedia

comienza 2024-02-13 19:11:41

paro en 2024-02-13 22:05:25



!cat /proc/cpuinfo

processor : 0

vendor\_id : GenuineIntel

cpu family : 6

model : 63

model name : Intel(R) Xeon(R) CPU @ 2.30GHz

stepping : 0

microcode : 0xffffffff

cpu MHz : 2299.998

cache size : 46080 KB

physical id : 0

siblings : 2

core id : 0

cpu cores : 1

apicid : 0

initial apicid : 0

fpu : yes

fpu\_exception : yes

cpuid level : 13

wp : yes

flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ss ht syscall nx pdpe1gb rdtscp lm constant\_tsc rep\_good nopl xtopology nonstop\_tsc cpuid tsc\_known\_freq pni pclmulqdq ssse3 fma cx16 pcid sse4\_1 sse4\_2 x2apic movbe popcnt aes xsave avx f16c rdrand hypervisor lahf\_lm abm invpcid\_single ssbd ibrs ibpb stibp fsgsbase tsc\_adjust bmi1 avx2 smep bmi2 erms invpcid xsaveopt arat md\_clear arch\_capabilities

bugs : cpu\_meltdown spectre\_v1 spectre\_v2 spec\_store\_bypass l1tf mds swapgs mmio\_stale\_data retbleed

bogomips : 4599.99

clflush size : 64

cache\_alignment : 64

address sizes : 46 bits physical, 48 bits virtual

power management:

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bogomips : 4599.99

clflush size : 64

cache\_alignment : 64

address sizes : 46 bits physical, 48 bits virtual

power management:

!cat /proc/meminfo

MemTotal: 13290480 kB

MemFree: 9345020 kB

MemAvailable: 11965080 kB

Buffers: 80724 kB

Cached: 2737236 kB

SwapCached: 0 kB

Active: 857452 kB

Inactive: 2817912 kB

Active(anon): 1632 kB

Inactive(anon): 858236 kB

Active(file): 855820 kB

Inactive(file): 1959676 kB

Unevictable: 16 kB

Mlocked: 16 kB

SwapTotal: 0 kB

SwapFree: 0 kB

Dirty: 2704 kB

Writeback: 0 kB

AnonPages: 855500 kB

Mapped: 642800 kB

Shmem: 2456 kB

KReclaimable: 91004 kB

Slab: 131768 kB

SReclaimable: 91004 kB

SUnreclaim: 40764 kB

KernelStack: 5552 kB

PageTables: 13824 kB

SecPageTables: 0 kB

NFS\_Unstable: 0 kB

Bounce: 0 kB

WritebackTmp: 0 kB

CommitLimit: 6645240 kB

Committed\_AS: 2878076 kB

VmallocTotal: 34359738367 kB

VmallocUsed: 75916 kB

VmallocChunk: 0 kB

Percpu: 1088 kB

HardwareCorrupted: 0 kB

AnonHugePages: 0 kB

ShmemHugePages: 0 kB

ShmemPmdMapped: 0 kB

FileHugePages: 0 kB

FilePmdMapped: 0 kB

CmaTotal: 0 kB

CmaFree: 0 kB

Unaccepted: 0 kB

HugePages\_Total: 0

HugePages\_Free: 0

HugePages\_Rsvd: 0

HugePages\_Surp: 0

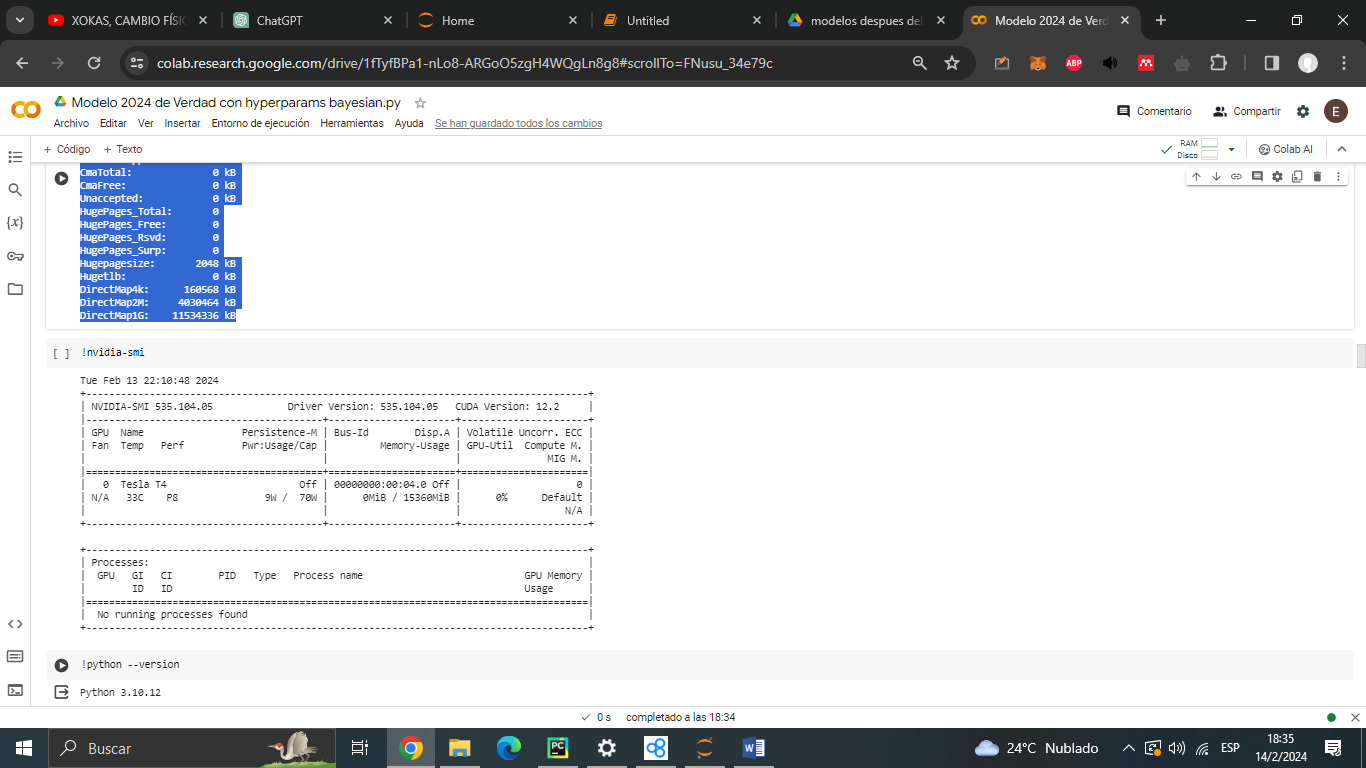
Hugepagesize: 2048 kB

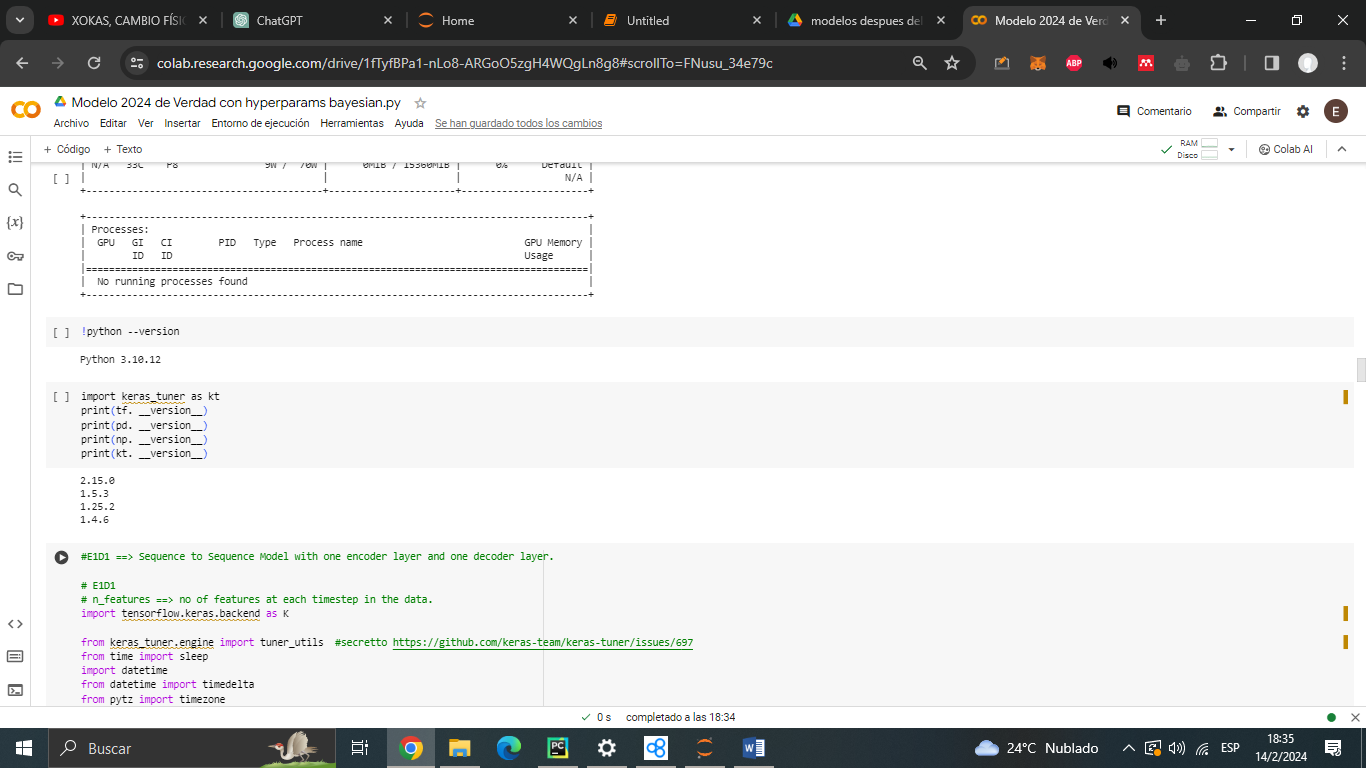
Hugetlb: 0 kB

DirectMap4k: 160568 kB

DirectMap2M: 4030464 kB

DirectMap1G: 11534336 kB





Segunda Pasada

Comienza 2024-02-14 18:36:37

Paró 2024-02-14 20:06:27

!df -h

Filesystem Size Used Avail Use% Mounted on

overlay 108G 27G 82G 25% /

tmpfs 64M 0 64M 0% /dev

shm 5.8G 0 5.8G 0% /dev/shm

/dev/root 2.0G 1.1G 849M 57% /usr/sbin/docker-init

tmpfs 6.4G 108K 6.4G 1% /var/colab

/dev/sda1 44G 28G 16G 63% /etc/hosts

tmpfs 6.4G 0 6.4G 0% /proc/acpi

tmpfs 6.4G 0 6.4G 0% /proc/scsi

tmpfs 6.4G 0 6.4G 0% /sys/firmware

drive 15G 14G 1.8G 89% /content/drive

!cat /proc/cpuinfo

processor : 0

vendor\_id : GenuineIntel

cpu family : 6

model : 79

model name : Intel(R) Xeon(R) CPU @ 2.20GHz

stepping : 0

microcode : 0xffffffff

cpu MHz : 2200.210

cache size : 56320 KB

physical id : 0

siblings : 2

core id : 0

cpu cores : 1

apicid : 0

initial apicid : 0

fpu : yes

fpu\_exception : yes

cpuid level : 13

wp : yes

flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ss ht syscall nx pdpe1gb rdtscp lm constant\_tsc rep\_good nopl xtopology nonstop\_tsc cpuid tsc\_known\_freq pni pclmulqdq ssse3 fma cx16 pcid sse4\_1 sse4\_2 x2apic movbe popcnt aes xsave avx f16c rdrand hypervisor lahf\_lm abm 3dnowprefetch invpcid\_single ssbd ibrs ibpb stibp fsgsbase tsc\_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm rdseed adx smap xsaveopt arat md\_clear arch\_capabilities

bugs : cpu\_meltdown spectre\_v1 spectre\_v2 spec\_store\_bypass l1tf mds swapgs taa mmio\_stale\_data retbleed

bogomips : 4400.42

clflush size : 64

cache\_alignment : 64

address sizes : 46 bits physical, 48 bits virtual

power management:

processor : 1

vendor\_id : GenuineIntel

cpu family : 6

model : 79

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stepping : 0

microcode : 0xffffffff

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siblings : 2

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cpuid level : 13

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address sizes : 46 bits physical, 48 bits virtual

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MemFree: 9425316 kB

MemAvailable: 11786852 kB

Buffers: 65760 kB

Cached: 2494180 kB

SwapCached: 0 kB

Active: 820980 kB

Inactive: 2802660 kB

Active(anon): 1112 kB

Inactive(anon): 1063952 kB

Active(file): 819868 kB

Inactive(file): 1738708 kB

Unevictable: 16 kB

Mlocked: 16 kB

SwapTotal: 0 kB

SwapFree: 0 kB

Dirty: 2268 kB

Writeback: 0 kB

AnonPages: 1061836 kB

Mapped: 635816 kB

Shmem: 1356 kB

KReclaimable: 87800 kB

Slab: 123424 kB

SReclaimable: 87800 kB

SUnreclaim: 35624 kB

KernelStack: 5780 kB

PageTables: 20464 kB

SecPageTables: 0 kB

NFS\_Unstable: 0 kB

Bounce: 0 kB

WritebackTmp: 0 kB

CommitLimit: 6645240 kB

Committed\_AS: 2854752 kB

VmallocTotal: 34359738367 kB

VmallocUsed: 12016 kB

VmallocChunk: 0 kB

Percpu: 1088 kB

HardwareCorrupted: 0 kB

AnonHugePages: 8192 kB

ShmemHugePages: 0 kB

ShmemPmdMapped: 0 kB

FileHugePages: 0 kB

FilePmdMapped: 0 kB

CmaTotal: 0 kB

CmaFree: 0 kB

Unaccepted: 0 kB

HugePages\_Total: 0

HugePages\_Free: 0

HugePages\_Rsvd: 0

HugePages\_Surp: 0

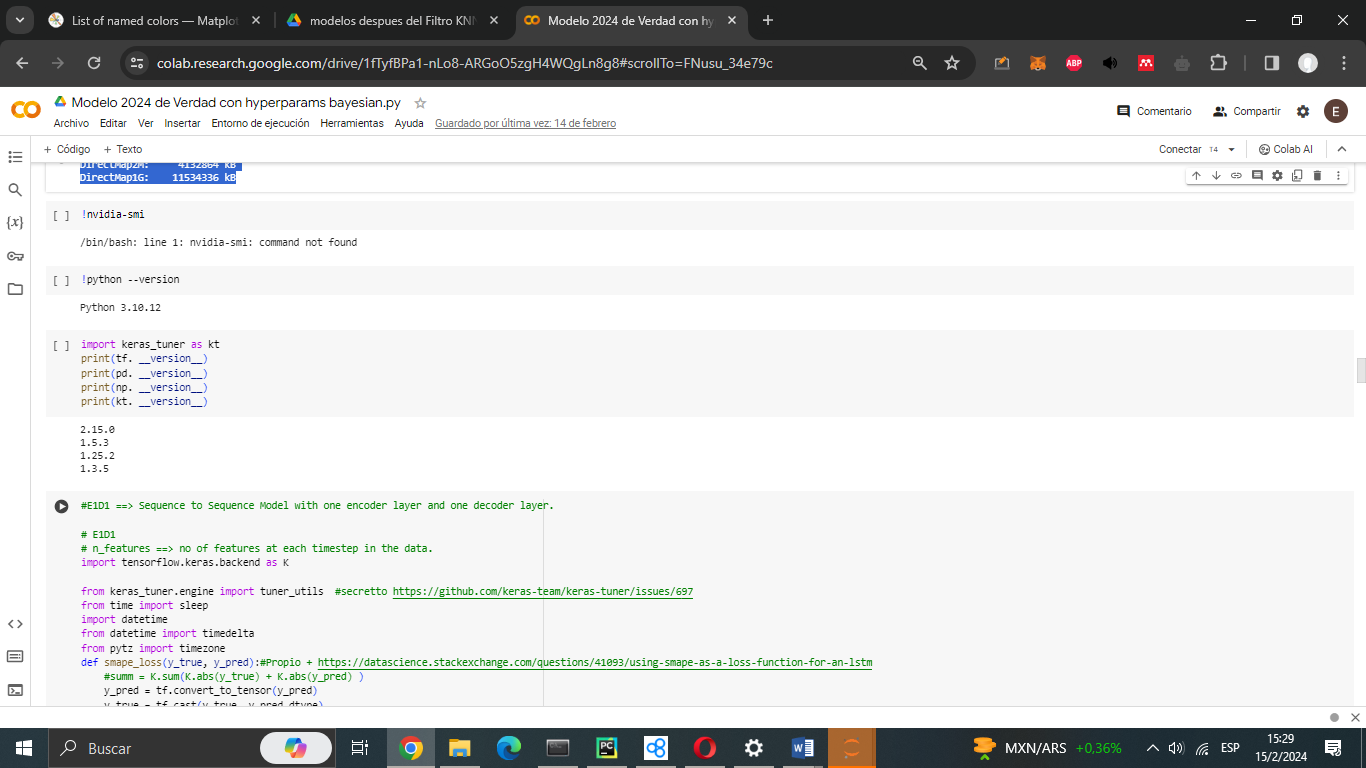
Hugepagesize: 2048 kB

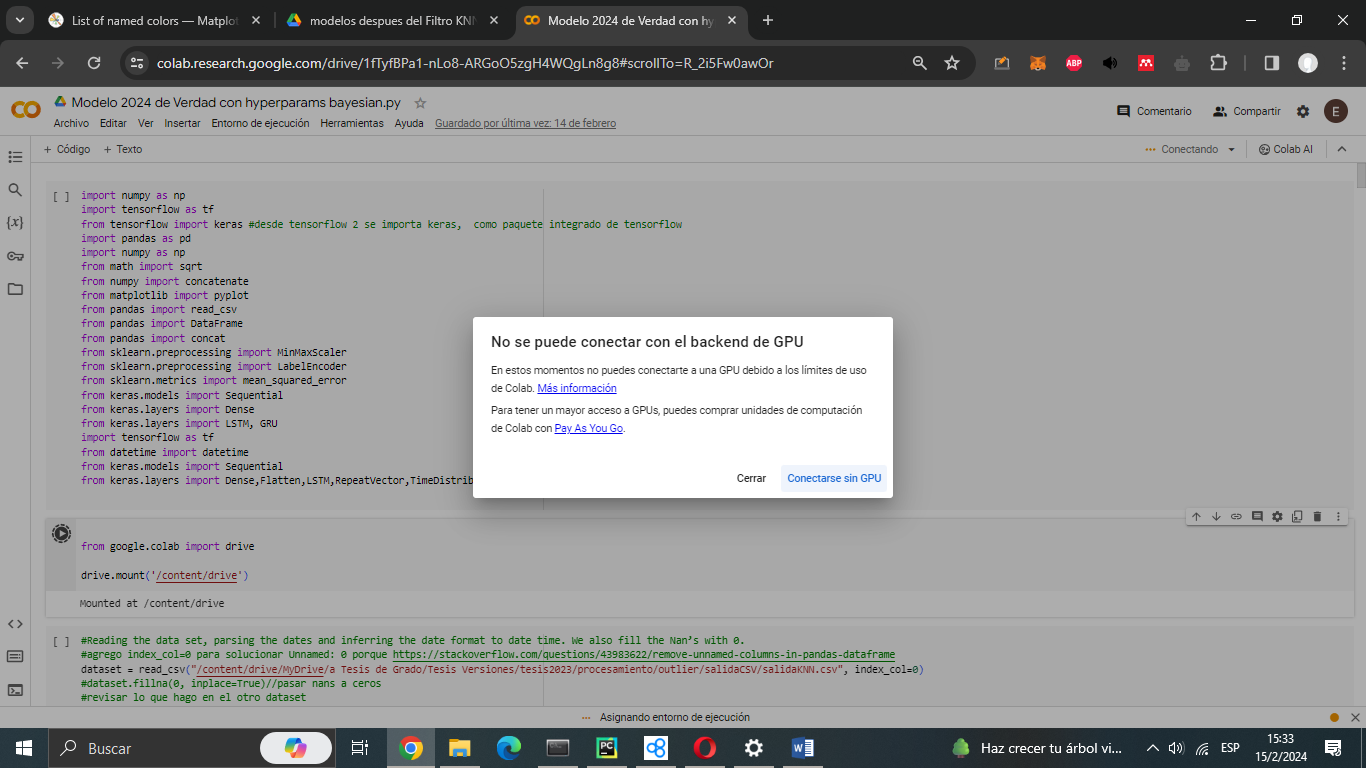
Hugetlb: 0 kB

DirectMap4k: 58168 kB

DirectMap2M: 4132864 kB

DirectMap1G: 11534336 kB





continuacion

Comenzó en 2024-02-20 16:08:29

Finalizó en 2024-02-20 18:04:52

# Resultado

/usr/local/lib/python3.10/dist-packages/keras/src/engine/training.py:3103: UserWarning: You are saving your model as an HDF5 file via `model.save()`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my\_model.keras')`.

saving\_api.save\_model(

n\_days 7 {'units': 416, 'lr': 0.0001, 'dropout': 0.4, 'recurrent\_dropout': 0.0, 'batch\_size': 32}

otro 7 <class '\_\_main\_\_.MyTuner'>

WARNING:tensorflow:Layer gru\_2 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

Results summary

Results in /content/drive/MyDrive/a Tesis de Grado/Tesis Versiones/tesis2023/modelos /salidasModelosHypertuner/bayesian/SMAPE-max\_trials50- epochs100 7

Showing 1 best trials

Objective(name="val\_loss", direction="min")

Trial 23 summary

Hyperparameters:

units: 416

lr: 0.0001

dropout: 0.4

recurrent\_dropout: 0.0

batch\_size: 32

Score: 0.08343570679426193

results\_summary <class 'NoneType'>

WARNING:tensorflow:Layer gru\_3 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

n\_days 14 {'units': 224, 'lr': 0.0002981287960783473, 'dropout': 0.1, 'recurrent\_dropout': 0.4, 'batch\_size': 32}

otro 14 <class '\_\_main\_\_.MyTuner'>

WARNING:tensorflow:Layer gru will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

WARNING:tensorflow:Layer gru\_1 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

WARNING:tensorflow:Layer gru\_2 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

Results summary

Results in /content/drive/MyDrive/a Tesis de Grado/Tesis Versiones/tesis2023/modelos /salidasModelosHypertuner/bayesian/SMAPE-max\_trials50- epochs100 14

Showing 1 best trials

Objective(name="val\_loss", direction="min")

Trial 15 summary

Hyperparameters:

units: 224

lr: 0.0002981287960783473

dropout: 0.1

recurrent\_dropout: 0.4

batch\_size: 32

Score: 0.08396006375551224

results\_summary <class 'NoneType'>

WARNING:tensorflow:Layer gru\_3 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

n\_days 21 {'units': 512, 'lr': 0.0008669517422511968, 'dropout': 0.30000000000000004, 'recurrent\_dropout': 0.2, 'batch\_size': 32}

otro 21 <class '\_\_main\_\_.MyTuner'>

WARNING:tensorflow:Layer gru will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

WARNING:tensorflow:Layer gru\_1 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

WARNING:tensorflow:Layer gru\_2 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

WARNING:tensorflow:Layer gru\_3 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

Results summary

Results in /content/drive/MyDrive/a Tesis de Grado/Tesis Versiones/tesis2023/modelos /salidasModelosHypertuner/bayesian/SMAPE-max\_trials50- epochs100 21

Showing 1 best trials

Objective(name="val\_loss", direction="min")

Trial 45 summary

Hyperparameters:

units: 512

lr: 0.0008669517422511968

dropout: 0.30000000000000004

recurrent\_dropout: 0.2

batch\_size: 32

Score: 0.07924449443817139

results\_summary <class 'NoneType'>

n\_days 28 {'units': 256, 'lr': 0.0001, 'dropout': 0.0, 'recurrent\_dropout': 0.30000000000000004, 'batch\_size': 32}

otro 28 <class '\_\_main\_\_.MyTuner'>

WARNING:tensorflow:Layer gru will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

WARNING:tensorflow:Layer gru\_1 will not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fallback when running on GPU.

Results summary

Results in /content/drive/MyDrive/a Tesis de Grado/Tesis Versiones/tesis2023/modelos /salidasModelosHypertuner/bayesian/SMAPE-max\_trials50- epochs100 28

Showing 1 best trials

Objective(name="val\_loss", direction="min")

Trial 22 summary

Hyperparameters:

units: 256

lr: 0.0001

dropout: 0.0

recurrent\_dropout: 0.30000000000000004

batch\_size: 32

Score: 0.07861771434545517

results\_summary <class 'NoneType'>

!df -h

Filesystem Size Used Avail Use% Mounted on

overlay 79G 27G 52G 34% /

tmpfs 64M 0 64M 0% /dev

shm 5.7G 0 5.7G 0% /dev/shm

/dev/root 2.0G 1.1G 849M 57% /usr/sbin/docker-init

tmpfs 6.4G 112K 6.4G 1% /var/colab

/dev/sda1 63G 29G 35G 46% /opt/bin/.nvidia

tmpfs 6.4G 0 6.4G 0% /proc/acpi

tmpfs 6.4G 0 6.4G 0% /proc/scsi

tmpfs 6.4G 0 6.4G 0% /sys/firmware

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Active(file): 844908 kB

Inactive(file): 1933084 kB

Unevictable: 16 kB

Mlocked: 16 kB

SwapTotal: 0 kB

SwapFree: 0 kB

Dirty: 7112 kB

Writeback: 0 kB

AnonPages: 738920 kB

Mapped: 636208 kB

Shmem: 1416 kB

KReclaimable: 90076 kB

Slab: 130472 kB

SReclaimable: 90076 kB

SUnreclaim: 40396 kB

KernelStack: 5600 kB

PageTables: 10860 kB

SecPageTables: 0 kB

NFS\_Unstable: 0 kB

Bounce: 0 kB

WritebackTmp: 0 kB

CommitLimit: 6645236 kB

Committed\_AS: 2829588 kB

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