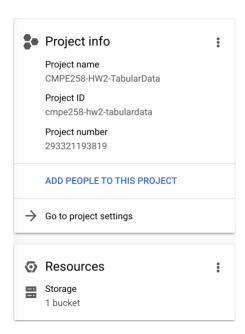
# <u>CMPE 258 – Deep Learning Assignment 2</u>

014642290 : Arpitha Gurumurthy

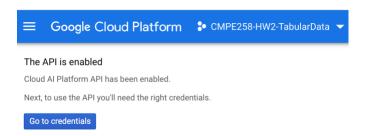
# 5. Hello Structured Data:

### **PROJECT SETUP:**

• On the project selector page, created a project named: CMPE258-HW2-TabularData



• Enabled the API for the above created project:



• Set up the authentication:

# Private key saved to your computer A CMPE258-HW2-TabularData-8f068cc4ed7b.json allows access to your cloud resources, so store it securely. Learn more

#### Service Accounts

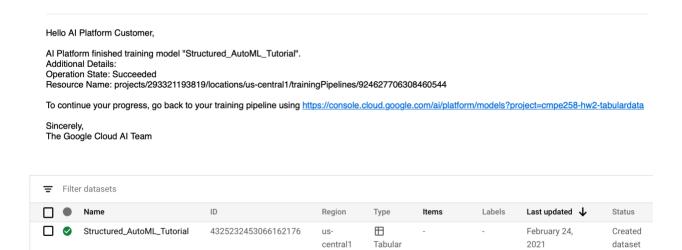
Email	Name ↑
arpitha-gurumurthy@cmpe258-hw2-tabulardata.iam.gserviceaccount.com	Arpitha Gurumurthy

CLOSE

• Set up the environment variable to the path of the JSON file downloaded from the previous step.

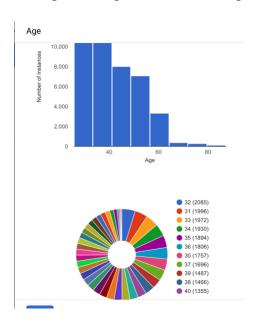
```
Last login: Wed Feb 24 10:06:51 on ttys000
[(base) arpitha@Arpithas-MacBook-Air ~ % export GOOGLE_APPLICATION_CREDENTIALS="/]
Users/arpitha/Downloads/CMPE258-HW2-TabularData-8f068cc4ed7b.json"
(base) arpitha@Arpithas-MacBook-Air ~ %
```

#### **CREATING A TABULAR DATASET:**



Field Name \land	Missing % (count)	Distinct values ?
Age	-	77
Balance	-	7168
Campaign	-	48
Contact	-	3
Day	-	31
Default	-	2
Deposit	-	2
Duration	-	1573
Education	-	4
Housing	-	2
Job	-	12
Loan	-	2
MaritalStatus	-	3
Month	-	12
PDays	-	559

After generating statistics, showing only Age feature:

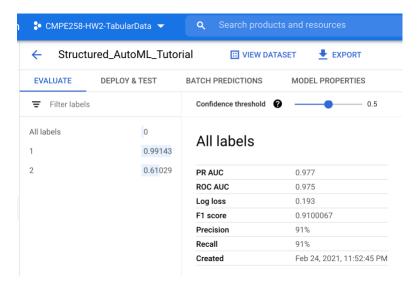


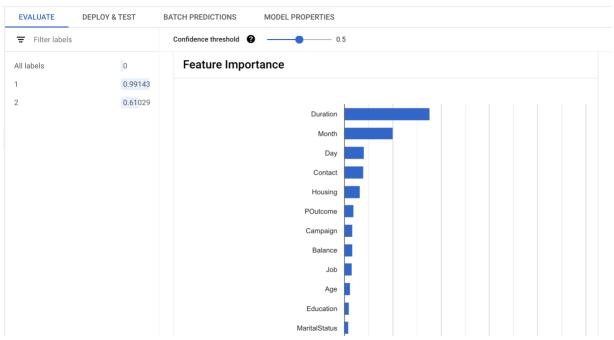
# TRAINING THE AUTO ML TEXT CLASSIFICATION MODEL:

	Name	ID	Data	Endpoints	Region	Туре	Created
•	Structured_AutoML_Tutorial	5106818094647476224	Structured_AutoML_Tutorial	1	us- central1	<b>⊞</b> Tabular	Feb 24, 2021, 10:47:26 PM

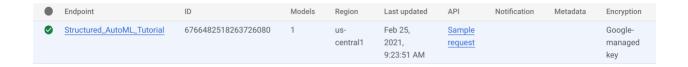
# **DEPLOYING THE MODEL TO ENDPOINT:**

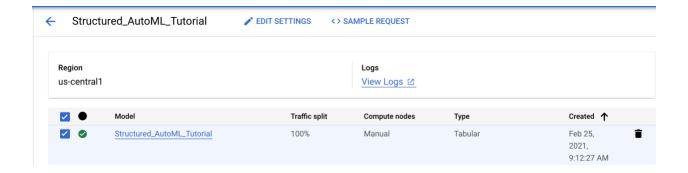
Model Evaluation:





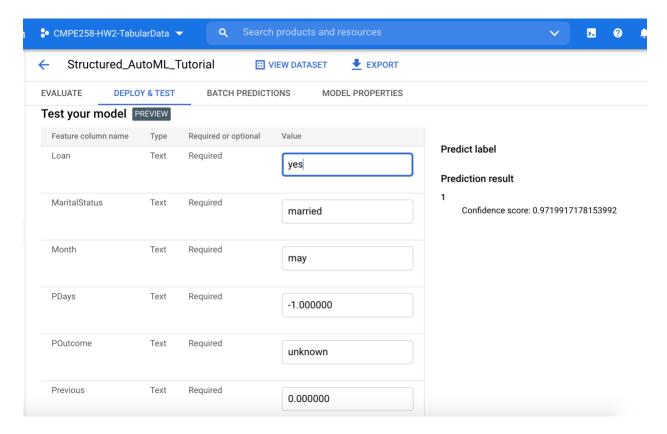
# Deploy and test:





Testing the model predictions by assigning values to each of the feature to check if a deposit was made at the bank or not for that data:

- 1 negative outcome: deposit not made at the bank.
- 2 positive outcome: deposit made at the bank.



For the above test data, we can see that the prediction result is that a deposit is not made at the bank.