

GCP SUMMER COURSE PROJECT :

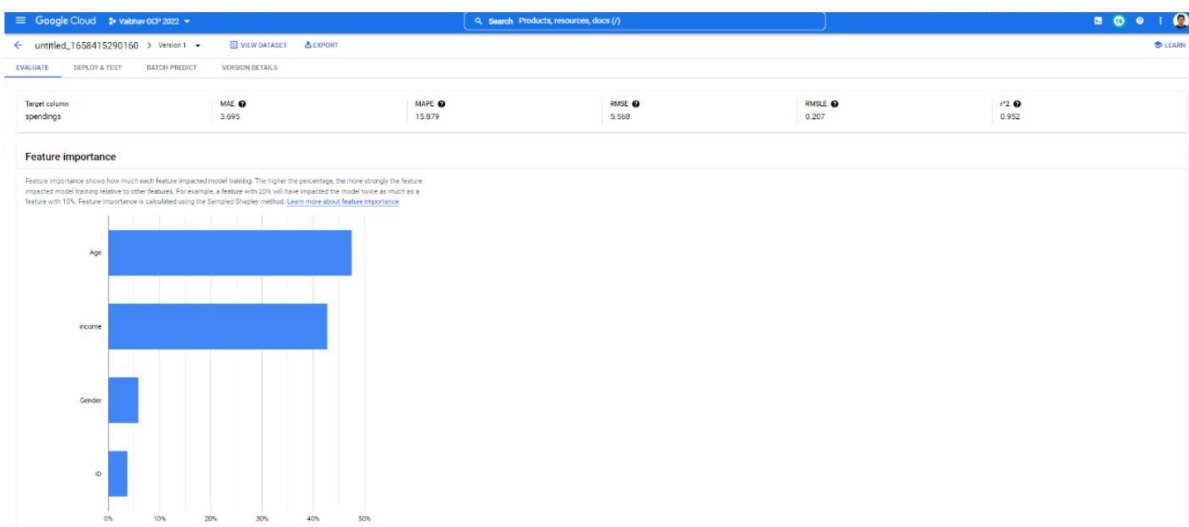
NAME: SIDDARTH M.P(CS423) , VAIBHAV VIJAY (CS479)

SRN: PES1UG20CS423 , PES1UG20CS479

TITLE: “TELEGRAM CHAT BOT “

This is a simple python project wherein we have created a telegram chat-bot and the bot responds to that particular text and we have also used a text to speech recognition API and used translational api to translate speech in kannada , gave voice to the bot but we have saved the audio in a file , and since we had some error with chatbot.csv we worked on Mall_predictions.csv which is a regression model and trained it using AutoML and deployed it in VertexAI so whenever user wishes to know the spendings(‘target outcome’) by mentioning id,gender,age,income although we were not able to interface this but we got the predictions in google cloud SDK terminal using endpoints.

MODEL EVALUATION:



TELEGRAM CHAT BOT RESPONSE IN KANNADA(TRANSLATIONAL API):

MODEL PREDICTION:

The screenshot displays the Google Cloud AI Platform interface. At the top, there's a navigation bar with 'Google Cloud' and 'Valhav GCP 2022'. Below it, a search bar and links for 'VIEW DATASET' and 'EXPORT' are visible. The main section is titled 'untitled_1658415290160' and includes tabs for 'EVALUATE', 'DEPLOY & TEST', 'BATCH PREDICT', and 'VERSION DETAILS'. A 'DEPLOY TO ENDPOINT' button is present. Below this, a table lists deployed models with columns: Name, ID, Status, Models, Region, Monitoring, Most recent monitoring job, Most recent alerts, Last updated, API, Notification, Labels, and Encryption. Two models are listed: 'MALL' and 'mallprediction'. Below the table, a 'Test your model' section with a 'PREVIEW' tab shows a form with input fields for 'ID', 'Gender', 'Age', and 'Income', each with a 'Value' and 'Local feature importance'. To the right, the 'Predict label' section shows the 'Prediction result' as '44.20950698852539' and the '95% prediction interval' as '[36.84973526000977, 62.51326370239258]'. At the bottom, there are 'PREDICT' and 'RESET' buttons.

Name	ID	Status	Models	Region	Monitoring	Most recent monitoring job	Most recent alerts	Last updated	API	Notification	Labels	Encryption
MALL	6836525806999568384	Active	1	us-central1	Enabled	Jul 21, 2022, 12:30:00 PM	4 alerts	Jul 22, 2022, 11:42:47 AM	Sample request			Google-managed key
mallprediction	5809599538842828800	Active	1	us-central1	Enabled	—	0 alerts	Jul 21, 2022, 11:56:39 PM	Sample request			Google-managed key

Feature column name	Type	Required or optional	Value	Local feature importance
ID	Text	Required	503.0	0
Gender	Text	Required	Female	0
Age	Text	Required	23.0	6.444522857665016
Income	Text	Required	62.0	0

Predict label

Prediction result
44.20950698852539

95% prediction interval
[36.84973526000977, 62.51326370239258]

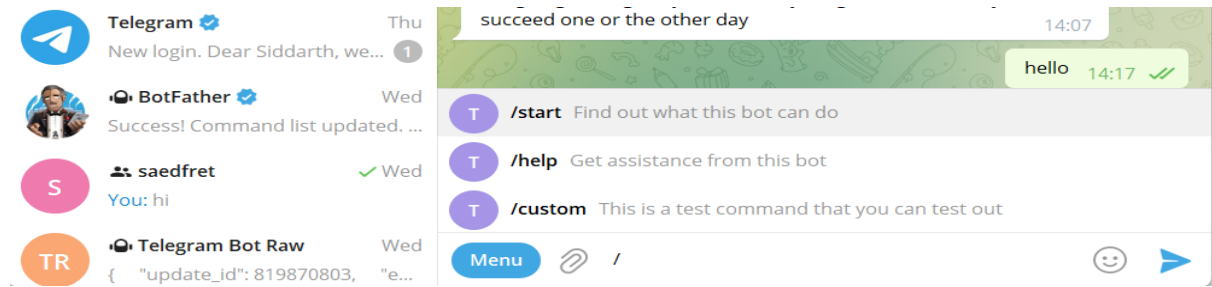
ACTUAL VALUE(compared):

503	Female	23	62	41
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TELEGRAM CHAT BOT:

The screenshot shows a Telegram chat interface. On the left, a list of chats is visible, including 'Archived chats', 'Netflix Premium Accounts', 'telebot', 'Best Deals', 'Movie group', 'Netflix Series', 'BotFather', 'saedfret', 'Telegram Bot Raw', and 'BotFather'. The main chat area shows a conversation with 'telebot'. The chat history includes messages like 'comments only or else google it', 'eat', 'Stay fit, Physical activity or exercise can improve your health and reduce the risk of developing several diseases like type 2 diabetes, cancer and cardiovascular disease.', '/start', 'Hello there! I'm a bot. What's up?', 'bye', 'Goodbye! , Remember that whatever you are doing , whatever you are going through in your life everything will be fine and you will succeed one or the other day', 'hello', and 'Hey there! Im a telegram bot and I can serve you by typing valid commands and use me whenever you need and I will be happy to reply you back in best possible way'. At the bottom, there is a 'Menu' button, a 'Write a message...' input field, and a microphone icon.

TELEGRAM CHAT BOT RESPONSE IN KANNADA(TRANSLATIONAL API):



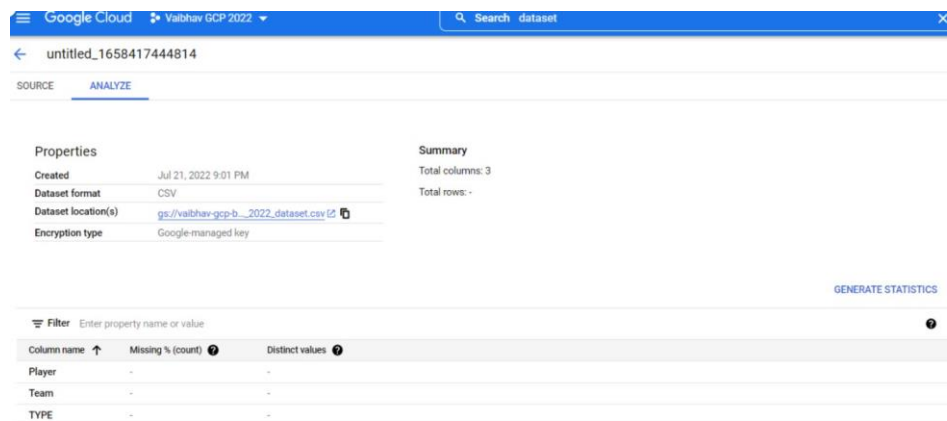
PREDICTION USING ENDPOINTS,GCLOUD SDK:

```
C:\Users\dell\Desktop>gcloud ai endpoints predict 683652580699568384 --region=us-central1 --json-request=C:\Users\dell\Desktop\request.json
Using endpoint [https://us-central1-prediction-aiplatform.googleapis.com/]
[{"lower_bound": 8.012011528015137, "upper_bound": 70.162109375, "value": 38.50892639160156}, {"lower_bound": 33.18674850463867, "upper_bound": 56.92864608764648, "value": 47.36187362670098}]
```

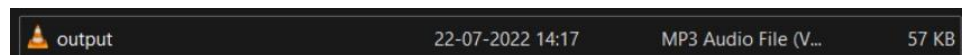
CHATBOT RESPONSE+TRANSLATIONAL SPEECH:

```
GoogleTextToSpeechDemo C:\Users\dell\Desktop\GCP\GoogleTextToSpeechDemo\python server.py
2022-07-22 14:17:40,330 - root - INFO - Starting Bot...
2022-07-22 14:17:40,332 - apscheduler.scheduler - INFO - Scheduler started
2022-07-22 14:17:40,625 - root - INFO - User (1683845452) says: hello
Bot response: Hey there! I'm a telegram bot and I can serve you by typing valid commands and use me whenever you need and I will be happy to reply you back in best possible way
('translatedText': 'ಹಲೋ, ಇವರು ಟೆಲಿಗ್ರಾಂನಲ್ಲಿ ಬರೆಯುತ್ತಿರುವ ಮತ್ತು ಪೂರೈಕೆಯಾದ ಅಕ್ಷರಗಳನ್ನು ಟಿಪ್ಪಣಿ ಮಾಡುವ ಮೂಲಕ ನಾನು ನಿಮಗೆ ಸೇವೆ ಸಲ್ಲಿಸುತ್ತೇನೆ ಮತ್ತು ನಿಮಗೆ ಅಗತ್ಯವಿರುವಾಗ ನನ್ನನ್ನು ಬಳಸಿರಿ ಮತ್ತು ನಿಮಗೆ ಸಾಧ್ಯವಾದಷ್ಟು ತ್ವರಿತವಾಗಿ ಉತ್ತರಿಸಲು ನಾನು ಸಿದ್ಧನಾಗಿದ್ದೇನೆ', 'detectedSourceLanguage': 'en', 'input': 'Hey there! I'm a telegram bot and I can serve you by typing valid commands and use me whenever you need and I will be happy to reply you back in best possible way')
```

DATASET CREATION IN BUCKET:



OYTPUT FILE (SPEECH TRANSLATED):



DEPLOYING THROUGH ENDPOINT:

TELEGRAM CHAT BOT RESPONSE IN KANNADA(TRANSLATIONAL API):

Google Cloud

Vaibhav GCP 2022

Search endpo

← mallprediction

EDIT SETTINGS

SAMPLE REQUEST

Region
us-central1

Logs
View Logs

Model Monitoring
Enabled: Most recent job ran on Jul 22, 2022, 12:30:00 AM

Model	Status	Most recent alerts	Monitoring	Traffic split	Compute nodes	Type	Created
<input checked="" type="checkbox"/> untitled_1658415290160 (Version 1)	Ready	0 alerts	Enabled	100%	Auto (1 minimum, 1 maximum)	Tabular	Jul 21, 2022, 11:43:26 PM

DEPLOY ANOTHER MODEL

BUCKET CREATION:

Google Cloud

Vaibhav GCP 2022

Search Products, resources, docs (/)

← Bucket details

REFRESH

HELP ASSISTANT

LEARN

vaibhav-gcp-bucket

Location
us-central1 (Iowa)

Storage class
Star

Public access
Not public

Protection
None

OBJECTS

CONFIGURATION

PERMISSIONS

PROTECTION

LIFECYCLE

Buckets > vaibhav-gcp-bucket

UPLOAD FILES

UPLOAD FOLDER

CREATE FOLDER

MANAGE HOLDS

DOWNLOAD

DELETE

Filter by name prefix only

Filter Filter objects and folders

Show deleted data

	Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encryption	Retention expiration date	Holds
<input type="checkbox"/>	Book1.csv	34.1 KB	text/csv	Jul 21, 2022, 6:43:34 PM	Standard	Jul 21, 2022, 6:43:34 PM	Not public	—	Google-managed key	—	None
<input type="checkbox"/>	Mail_Customers.csv	19.7 KB	text/csv	Jul 21, 2022, 8:25:27 PM	Standard	Jul 21, 2022, 8:25:27 PM	Not public	—	Google-managed key	—	None
<input type="checkbox"/>	ipl_2022_dataset.csv	22.4 KB	text/csv	Jul 21, 2022, 9:37:25 PM	Standard	Jul 21, 2022, 9:37:25 PM	Not public	—	Google-managed key	—	None
<input type="checkbox"/>	personal_mail.csv	91.7 KB	text/csv	Jul 22, 2022, 9:51:39 AM	Standard	Jul 22, 2022, 9:51:39 AM	Not public	—	Google-managed key	—	None
<input type="checkbox"/>	topical_chat.csv	22.9 MB	text/csv	Jul 21, 2022, 6:34:58 PM	Standard	Jul 21, 2022, 6:34:58 PM	Not public	—	Google-managed key	—	None
<input type="checkbox"/>	vvv.csv	244.8 KB	text/csv	Jul 21, 2022, 5:27:29 PM	Standard	Jul 21, 2022, 5:27:29 PM	Not public	—	Google-managed key	—	None