



**"FOCUS"**





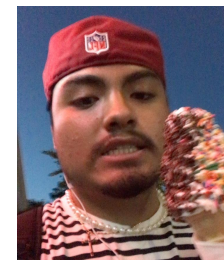
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# “Focus” Purpose



## → Primary Focus:

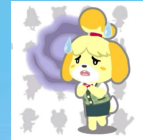
◆ Us AI to analyze Facial emotions & surroundings.

• DANGER, DANGER



◆ Video being created & sent out

• Key terms ( distress, fear, aggression, etc)



## → Resolution:

◆ Create a movement for social equilibrium.

• Racial Decrimintaion

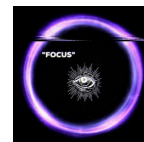
• Police Brutality



# Test Run

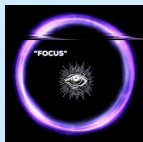
- ★ Incident that Lead “ Focus” to form
  - Hit & Run





## Steps Taken:

- Used a Pre-Trained Emotion Recognition Neural Network.
- Created a Twitter Bot that would reply to a user and tweet the emotions found in the images using from the neural network.
- Took the API keys and tokens from the bot and placed them in a Python code that'll reply and tweet
- Created a virtual machine in Google Cloud to run a Docker image and all the code



# HPC Implementation

- ➔ Stored all our data/sources in a bucket
- ➔ Coded the bot in a Jupyter Notebook using AI Platform
- ➔ Used a VM to run the Pre-trained Neural Network

The screenshot displays the Google Cloud Platform interface. The top navigation bar shows 'Google Cloud Platform' and 'sc20-hack-6'. The left sidebar contains navigation options: AI Platform, Dashboard, AI Hub, Data Labeling, Notebooks, Pipelines, Jobs, and Models. The main content area is split into two panels. The left panel, titled 'Notebooks', shows a notification about migrating to the new Notebooks API and a table of notebook instances. The right panel, titled 'Storage', shows the details for a bucket named 'focus\_project', including a table of objects.

**Notebooks Table:**

Instance name	Zone	Environment	Machine type	GPUs	Permission	Labels
<input checked="" type="checkbox"/> <input type="radio"/> twitter-bot	us-west1-b	NumPy/SciPy/scikit-learn	4 vCPUs, 15 GB RAM	None	Service account	No label

**Storage Buckets Table:**

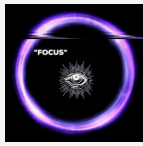
Object Name	Size	Type	Created time	Storage class	Last modified	Public access	Encryption	Retention
U S'.mp3	686.3 KB	audio/mpeg	Nov 7, 2020, 3...	Archive	Nov 7, 202...	Not public	Google-managed key	—
ssive Force in #	11.9 MB	video/mp4	Nov 7, 2020, 3...	Archive	Nov 7, 202...	Not public	Google-managed key	—
ity Footage m	18.3 MB	video/mp4	Nov 7, 2020, 3...	Archive	Nov 7, 202...	Not public	Google-managed key	—
ity Frame /	—	Folder	—	—	—	—	—	—
:-master.zip.do	16.6 MB	application/zip	Nov 7, 2020, 6...	Archive	Nov 7, 202...	Not public	Google-managed key	—
py	4.9 KB	text/x-python-script	Nov 7, 2020, 7...	Archive	Nov 7, 202...	Not public	Google-managed key	—



# Regional Implications

- Throughout the Hackathon we were able to narrow down our Data sets (being security footage and screen frame by our images to detect when someone is in danger.
- Atlanta citizens benefit from this. Whenever they are in danger or treated poorly, the AI will detect their emotions and post it, making their voices be heard.





# Demo:



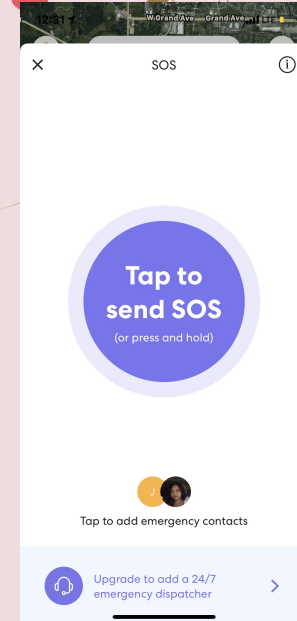
- **The Rundown:**
- Inserted a video of the bot running
  - ◆ Gabbie originally gave a Twitter bot that we used to download images and post on Twitter.
- When the bot is tagged in an image on Twitter, it shall return the emotion of the people in the video as well as download the image





# What to look Forward in the Future

- Roadmap into the Future
  - ◆ Securing safety for those around us
- Implementation Throughout Atlanta Georgia
- Life 360



# A BIG THANK YOU



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