

Initial Software Creation

Subject: Engineering Capstone Project

Group Number: 21

Group Members: Deep Shah (8750086) | Jeevan Dsouza (8716171)

Team Name: Vision: A virtual assistant for the visually impaired



AWS Account Creation:

Our AWS accounts are set up and ready to go. We have also created budgets and alerts to safeguard ourselves from an expensive cloud bill.

The screenshot shows the AWS Budgets & Alerts interface. On the left sidebar, there are links for Budgets Reports, Savings Plans, Preferences, Billing preferences, Payment methods, Consolidated billing, and Tax settings. The main content area displays a budget configuration for a budget named '\$dollarbudget'. The budget has a budget amount of \$5.00, a start date of 2022-01-01, and a monthly period. Below the budget details, there is a section for 'Additional budget parameters'. At the bottom of the main content area, there are tabs for 'Budget history' and 'Alerts', with 'Alerts' being the active tab. Under the 'Alerts' tab, it says 'Alerts (2) Info' and 'Review any exceeded thresholds and any pending actions below from your alerts.' There are two alert cards: 'Alert #1' and 'Alert #2'. Both alerts define the threshold as 60% of the budgeted amount (\$5.00). 'Alert #1' shows the threshold is 'Not exceeded'. 'Alert #2' shows the threshold is also 'Not exceeded'. At the bottom of the page, there are links for Feedback, Unified Settings, Copyright notice (© 2022, Amazon Web Services, Inc. or its affiliates.), Privacy, Terms, and Cookie preferences.

GitHub Repository:

A private Github repo for our capstone is created with a readme file. We will be updating our weekly progress in the issues section of the repository.

The screenshot shows a GitHub repository page for 'DeepShah99 / Vision-a-virtual-assistant-for-the-visually-impaired'. The repository has 1 issue, 1 pull request, and 8 commits. The README.md file contains a sunset image with the word 'Vision' overlaid and the text 'A Virtual Assistant for the Visually Impaired'. The repository has no description, 0 stars, 1 watcher, and 0 forks. It also shows no releases or packages published.

Week Three Progress #1

The screenshot shows a GitHub issue comment thread for 'Week Three Progress #1'. DeepShah99 comments on AWS setup and Python integration. JEEVANHENRYDSOUZA responds with hardware work and course integration. DeepShah99 adds a 'story' label. The issue has 1 comment and 2 participants.

Coding practice on Python:

A few weeks before starting the Fourth Sem, we started advancing our coding skills in python.

We uploaded our work on GitHub regularly to keep track of our consistency.

We are using VS Code for our coding practice.

Our GitHub Profiles:

Deep Shah: <https://github.com/DeepShah99>

Jeevan Dsouza: <https://github.com/JEEVANHENRYDSOUZA>

Deep Shah

DeepShah99

Edit profile

1 follower · 0 following

ArtificialNeuralNetworkforFinancialForecasting (Public)

Final Year Project to develop a machine learning model that will predict a company's stock price for the future to maximize the investor's gain in that stock

Embedded-Programming-Principles (Public)

I closely worked on STM32 to design and develop embedded projects which covered software design and implementation using the C language. Emphasis was placed on using techniques for embedded software...

● C

ScalableWirelessInfrastructureForAudioPlatforms (Public)

Quarterfinalist of Texas Instruments India Innovation Challenge Design Contest 2017

LineFollowingRobot (Public)

During my 3rd year of Engineering, I collaborated with my professor to create a Line Following Robot to encourage juniors regarding field of electronics and programming.

● Python

Python-Coding-Challenges (Public)

Python programs to brush up on my problem-solving skills on coding challenges, covering Strings, Lists, Tuples, Dictionaries, Conditionals, Loops, Recursions, Files, etc.

● Python

187 contributions in the last year

Contribution settings ▾

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Less More

Jeevan Henry Dsouza

JEEVANHENRYDSOUZA

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0 followers · 1 following

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PYTHON

Python (Public)

c-

C++ (Public)

javascript

JavaScript (Public)

hypothesis-testing

Jupyter Notebook (Public)

binarysearch.

C++ (Public)

frontend-expert-html-interview-questions-solutions

Public

203 contributions in the last year

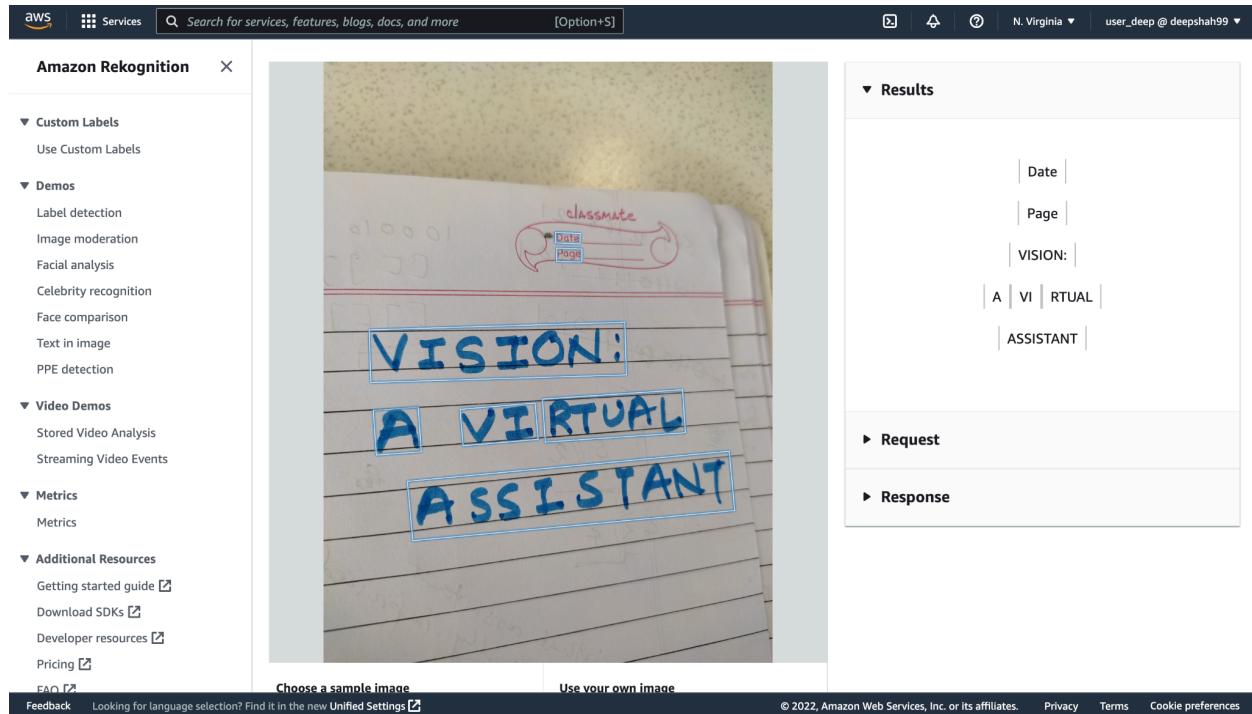
Learn how we count contributions

Less More

NEW! View your contributions in 3D, VR and IRL!

AWS Rekognition:

We have been testing and exploring Rekognition, as we are planning to do text detection in the first phase of our project.



The screenshot shows the AWS Rekognition service interface. On the left, there's a sidebar with various options like Custom Labels, Demos, Video Demos, Metrics, and Additional Resources. The main area displays a handwritten note with the text "VISION: A VIRTUAL ASSISTANT". Overlaid on this are several detected text boxes with labels: "CLASSMATE" (with bounding boxes around the top right), "Date" (around the date section), "Page" (around the page number), and "A", "VI", "RTUAL", "ASSISTANT" (all around the main title). Below the image, there are buttons for "Choose a sample image" and "Use your own image". On the right, there's a "Results" panel with sections for Date, Page, VISION:, and ASSISTANT. At the bottom, there are links for Request and Response, and a footer with copyright information and links to Privacy, Terms, and Cookie preferences.

Raspberry Pi Setup:

Successfully installed Pi OS (Debian Bullseye) and also connected to PI via SSH command.

```
deepshah — pi@raspberrypi: ~ — ssh pi@raspberrypi.local — 80x24
not known
[deepshah@Deeps-MacBook-Air ~ % ssh pi@raspberrypi
ssh: Could not resolve hostname raspberrypi: nodename nor servname provided, or
not known
[deepshah@Deeps-MacBook-Air ~ % ssh pi@raspberrypi.local
The authenticity of host 'raspberrypi.local (2607:fea8:1ce0:4730:1311:dddः:ba35:
b709)' can't be established.
ED25519 key fingerprint is SHA256:8RkvEH9F7n/s15J0dvPB6EOPnWgyXO+8KMJTYrKWhRE.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:1: raspberrypi
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'raspberrypi.local' (ED25519) to the list of known ho
sts.
[pi@raspberrypi.local's password:
Linux raspberrypi 5.15.32-v7l+ #1538 SMP Thu Mar 31 19:39:41 BST 2022 armv7l

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Tue May 31 02:03:54 2022
pi@raspberrypi:~ $
```