

# 5 Shocking Bonus Surprise is waiting for you Today — Stay Till End

#### Day-16 Agenda.

01.

**02.** 

03.

Label Reading & Methedology

Overview on Label reading & Methods to deploy

OCR

Optical Character Recognition

**Installing OCR** 

Installing & Configuring Optical Character Recognition

04.

**Reading Text from Image** 

Converting Text from Image

05.

Q&A

#### Label Reading.

Label-reading skills are intended to make it easier for you to use the Nutrition Facts labels to make quick, informed food decisions to help you choose a healthy diet. Overview | Serving Information | Calories | Nutrients | The Percent Daily Value (%DV) | Nutrition Facts Label Variations.





Ignoring saturated fat or trans fat amounts.

Choosing a whole day's supply (50g) of added sugar in one product.

#### **Nutrition Facts**

8 servings per container 2/3 cup (55g) Serving size

**Amount per serving Calories** 

230

| % Daily                   | Value* |
|---------------------------|--------|
| otal Fat 8g               | 10%    |
| Saturated Fat 1g          | 5%     |
| Trans Fat 0g              |        |
| holesterol Omg            | 0%     |
| odium 160mg               | 7%     |
| otal Carbohydrate 37g     | 13%    |
| Dietary Fiber 4g          | 14%    |
| Total Sugars 12g          |        |
| Includes 10g Added Sugars | 20%    |

| Prote | in | 3g |
|-------|----|----|

| Vitamin D 2mcg  | 10% |
|-----------------|-----|
| Calcium 260mg   | 20% |
| Iron 8mg        | 45% |
| Potassium 235mg | 6%  |
|                 |     |

The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories



calories per serving size.



Forgetting to read sodium content.

#### **Optical Character Recognition.**

- Optical character recognition or optical character reader is the electronic or mechanical conversion of images of typed, handwritten or printed text into machineencoded text, whether from a scanned document, a photo of a document, a scene-photo or from subtitle text superimposed on an image.
- The first step of OCR is using a scanner to process the physical form of a document.
- Once all pages are copied, OCR software converts the document into a two-color, or black and white, version
- The scanned-in image or bitmap is analyzed for light and dark areas, where the dark areas are identified as characters that need to be recognized and light areas are identified as background





## Methodology of deploying Label reading.

Google Vision, Amazon Rekognition PAID

02

PyTesseract FREE

01

Custom Training from Scratch with ROI





# Installing Libraries



#### **Tesseract-OCR Executable:**

https://www.pantechsolutions.net/media/attachment/file/t/e/tesse ract-ocr-w64-setup-v5.0.0-alpha.20200328.exe



# **Installing Libraries**



#### Pytesseract: pip install pytesseract

Successfully built pytesseract

Installing collected packages: pytesseract

WARNING: The script pytesseract.exe is installed in 'C:\Users

Consider adding this directory to PATH or, if you prefer to s

Successfully installed pytesseract-0.3.6

# **Extracting Text from** lmage - Pytesseract

```
try:
  from PIL import Image
except ImportError:
  import Image
import pytesseract
pytesseract.pytesseract.tesseract_cmd = r'C:\Program Files\Tesseract-OCR\tesseract.exe'
def recText(filename):
  text = pytesseract.image_to_string(Image.open(filename))
  return text
info = recText('test.png')
print(info)
file = open("result.txt","w")
file.write(info)
file.close()
print("Written Successful")
```

# Shocking Bonus — I

# Resume Building

LinkedIn Mastery

**Personal Branding** 

# **Doubt Clarifying Session**

**Technical Hackathon** 

Do It With the Instructor

Zoom Classes — Group Coaching (Same Lectures in the Portal)

# 3 Combo Course is Back

#### BUY 3 COURSE at Rs.999 Only

Data Analytics + Artificial Intelligence + Machine Learning

# Batch-2 Begins

- ✓ Access to all 90 Days Video Lectures (Value ₹12,000)
- **⊘** 50+ Projects From Scratch (Value ₹75,000)
- **100+ Source Code (Value ₹10,000)**
- ✓ Technical Materials (PPT & Mindmap) (Value ₹10,000)
- **⊘** Bonus Task, Assignment & Mindset Lectures (Value ₹5,000)
- ✓ Forum Telegram discussion & Support (Value ₹2,000)
- √ 3 Internship E-Certificate on Artificial Intelligence, Machine Learning and Data Analytics

Total Value Rs 1,14,000 Today Just Rs. 999

## Batch-I & 2 Benefits

3 Courses - Artificial Intelligence + Machine Learning + Data Analytics

1 Session on Resume Building

1 Session on LinkedIn Mastery

**Personal Branding** 

1 Session on Doubt Clarifying Session

Total Value Rs 1,14,000 Today Just Rs. 999

# Short Bytes — Tech News

#### Artificial Intelligence Has a Lot to Learn From Sea Slug, Study Suggests

In sea slugs, there are two signs of intelligence — habituation and sensitization. Habituation means normalizing response to a stimulus over time. Sensitization, however, is quite the opposite. It is the part of intelligence by which an organism strongly reacts to a new stimulus.

Al has often struggled to keep up with these apparently opposite sides of intelligence. Among researchers studying brain-inspired computing, it is known as the "stability-plasticity dilemma." Al, as we know it today, cannot store new information without first rewriting old data. But habituation would allow Al to not store unnecessary data while sensitization would help retain new information. This would increase stability while also enabling plasticity.



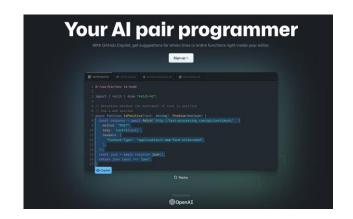
# Short Bytes — Tech News-2

#### GitHub releases an Al-powered copilot to help improve code

GitHub is helping developers to speed up and clean up their code with a new Al-powered tool that it calls Copilot.

GitHub Copilot uses an AI system from OpenAI known as OpenAI Codex. The system claims to have a broad knowledge of how people use code and claims to be "significantly more capable than GPT-3" in generating code.

By drawing context from the code that a developer is working on, the system is able to suggest entire lines or functions.











# Thanks!

Connect with me on **LinkedIn**: link in Description

Product & Project: www.pantechsolutions.net

Course:

Learn.pantechsolutions.net

#### **Tomorrow session**

**Smart Attendance System**