

# ROAD TO LEGACY

WHERE IT ALL CONNECTS

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We build great tech.



# Pamoda Dilranga

Senior Machine Learning Engineer  
Rootcode AI

@pamodadilranga

[linkedin.com/in/pamodadilranga](https://www.linkedin.com/in/pamodadilranga)



# Today's session

What is AI and Data Science?

What are the job roles in AI?

How can I get internship in AI?

# What is AI and Data Science ?

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# Data Science

Data science is the practice of using data to uncover insights, solve problems, and make informed decisions.

# Artificial Intelligence

Science of making machines smart enough to do tasks that typically require human intelligence.

# Recent Trends in AI



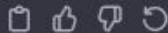
**You**

Can you complete my assignment before tomorrow? 🙄



**ChatGPT**

I'd love to help you with your assignment, but I can't complete it for you. However, I can certainly assist you in understanding concepts, providing guidance, reviewing your work, or answering specific questions you might have. Just let me know what you need help with, and I'll do my best to assist you!



## Large Language Models

# Recent Trends in AI

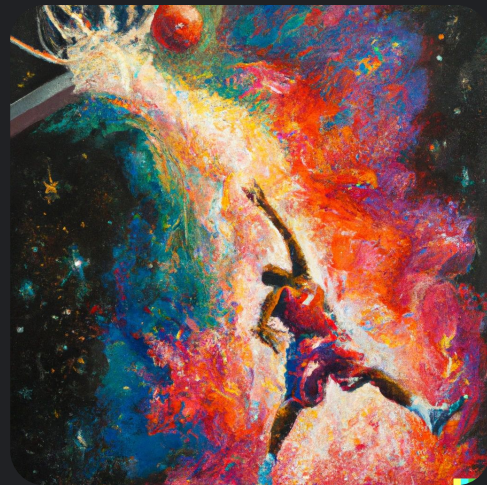


Image generation



# Recent Trends in AI



## Self Driving Cars

# What are the Job roles in AI?

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Job roles are bit messy sometimes....



1. Data Scientist
2. Machine Learning Engineer
3. AI Research Scientist
4. Data Engineer
5. Business Intelligence Analyst
6. Data Analyst

# What does **Data Scientist** do?

Data scientists analyze large datasets to uncover patterns, trends, and insights that can help businesses make better decisions.

They use statistical analysis, machine learning algorithms, and programming skills to extract valuable information from data.

# What does **Machine Learning Engineer** do?

Machine learning engineers design and implement algorithms that enable computers to learn from data and make predictions or decisions without being explicitly programmed.

They work on developing and deploying machine learning models in various applications.

# What does **AI Research Scientist** do?

AI research scientists conduct research and experiments to advance the field of artificial intelligence.

They explore new algorithms, techniques, and methodologies to improve the capabilities of AI systems.

# What does **Data Engineer** do?

They design and maintain the systems and infrastructure required to collect, store, and process large volumes of data.

They work with databases, data pipelines to ensure that data is accessible, reliable.



# What does **Business Intelligence Analyst** do?

Business intelligence analysts gather and analyze data to provide insights into business operations, trends, and performance.

They use data visualization tools and techniques to present findings to stakeholders and help them make data-driven decisions.

# What does **Data Analyst** do?

Data analysts interpret data and perform statistical analysis to identify trends, patterns, and correlations.

They work with structured and unstructured data to extract actionable insights that can inform business strategies and decision-making processes.

How can I Get internship in AI?

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1. Data Scientist
2. Machine Learning Engineer
3. AI Research Scientist
4. Data Engineer
5. Business Intelligence Analyst
6. Data Analyst

# Inten AI Engineer

```
graph TD; A[Inten AI Engineer] --> B[Machine Learning Engineer]; A --> C[Data Scientist]
```

Machine Learning  
Engineer

Data Scientist

# How can I Get internship in AI?

What should I need to learn?

Where can I find learning sources?

How can I stand out from other candidates?

# What should I need to learn?

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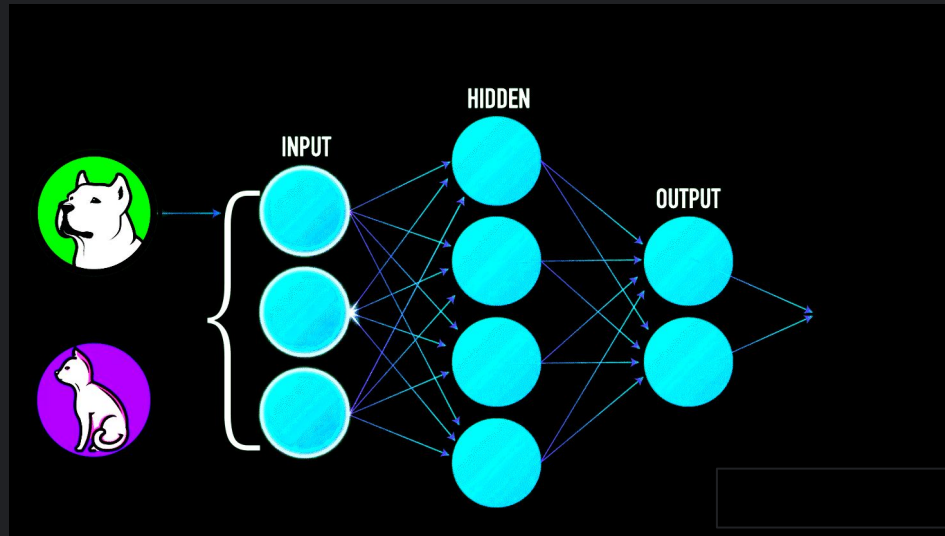
# python

```
31     def __init__(self, *args, **kwargs):
32         self.file = None
33         self.fingerprints = set()
34         self.logdups = True
35         self.debug = debug
36         self.logger = logging.getLogger(__name__)
37         if path:
38             self.file = open(os.path.join(path, "fingerprints.txt"), "a")
39             self.file.seek(0)
40             self.fingerprints.update(fingerprint for fingerprint in self.fingerprints)
41
42     def __getitem__(self, item):
43         settings = self.settings[item]
44         return cls(job_dir(settings), debug=settings.debug)
45
46     def request_seen(self, request):
47         fp = self.request_fingerprint(request)
48         if fp in self.fingerprints:
49             return True
50         self.fingerprints.add(fp)
51         if self.file:
52             self.file.write(fp + os.linesep)
```





# Basic Machine Learning and Deep Learning concept knowledge



- Machine Learning algorithms
- How Neural Networks work
- Convolution Neural Networks
- ...



# Where can I find learning sources?

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## Foundations of Python for Beginners | Google IT Automation with Python Certificate

Google Career Certificates • Updated today

Python How To | Google IT Automation with Python Certificate • 6:23

Python Project Tutorial | Google IT Automation with Python Certificate • 19:50

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What is machine learning?

Machine Learning Foundations



10 videos

## Machine Learning Foundations

Google for Developers ✓

Machine Learning Foundations: Ep #1 - What is ML? • 15:34

Machine Learning Foundations: Ep #2 - First steps in computer vision • 16:58

[VIEW FULL PLAYLIST](#)



# Kaggle.com

## Courses

We pare down complex topics to their key practical components, so you gain usable skills provided at no cost to you, and you can now earn certificates. [Learn more.](#)



### Intro to Programming

Get started with Python, if you have no coding experience.



### Pandas

Solve short hands-on challenges to perfect your data manipulation skills.



### Data Visualization

Make great data visualizations. A great way to see the power of coding!



### Feature Engineering

Better features make better models. Discover how to get the most out of your data.



### Intro to SQL

Learn SQL for working with databases, using Google BigQuery.



### Advanced SQL

Take your SQL skills to the next level.



### Intro to Deep Learning

Use TensorFlow and Keras to build and train neural networks for structured data.



### Computer Vision

Build convolutional neural networks with TensorFlow and Keras.

# Coursera.com



deeplearning.ai

- Machine Learning Specialization
- Deep Learning Specialization
- Tensorflow Specialization

How can I stand out from other candidates?

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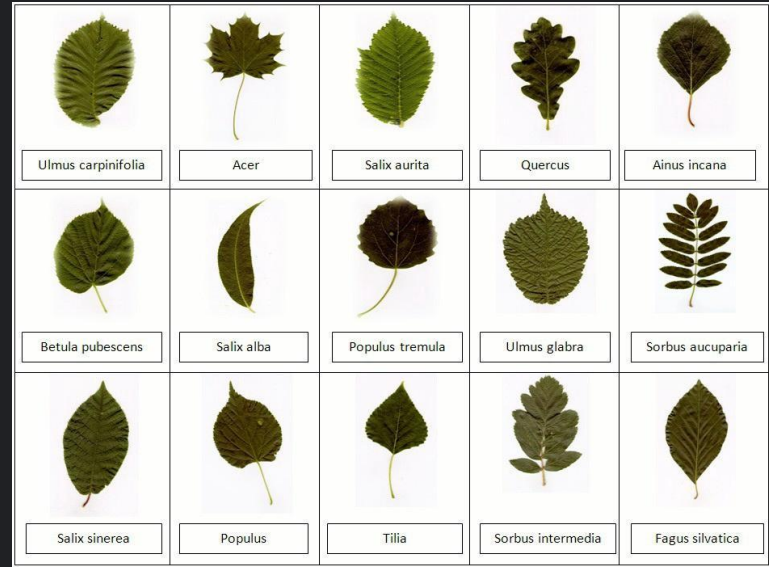


Do projects related to Machine Learning and  
Deep Learning

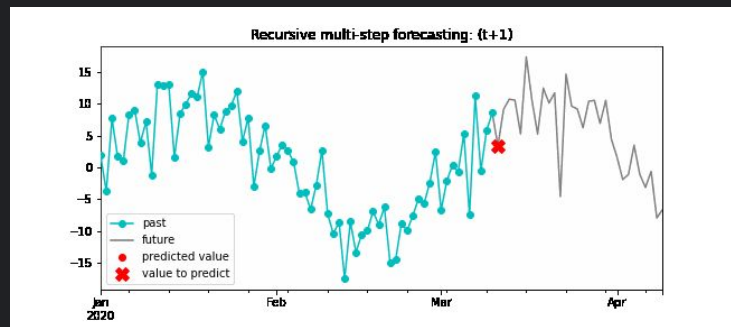
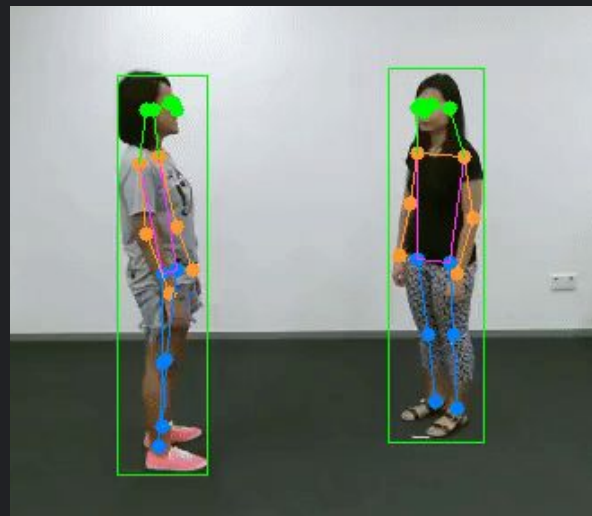
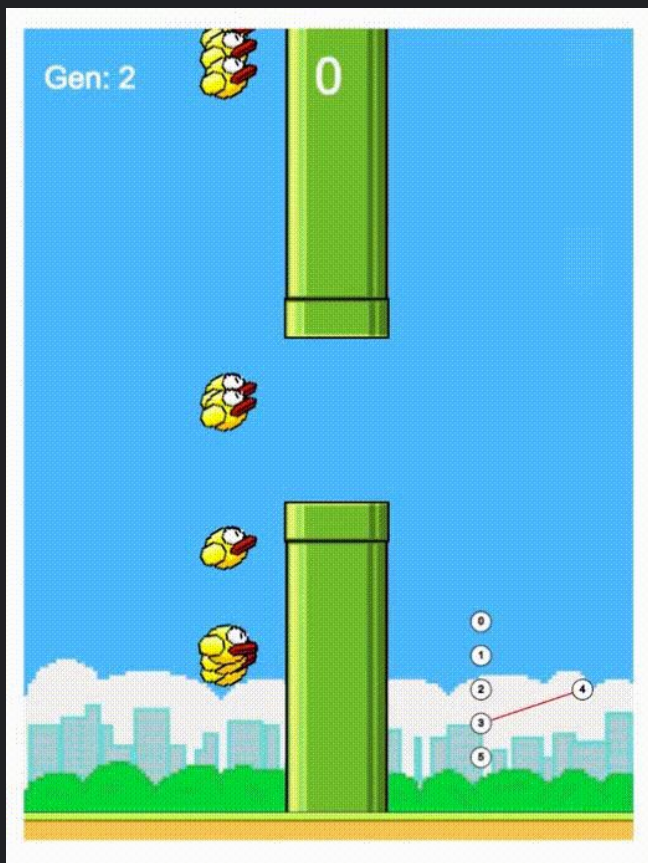
Gain knowledge and experience from  
projects



# Do various kind of projects





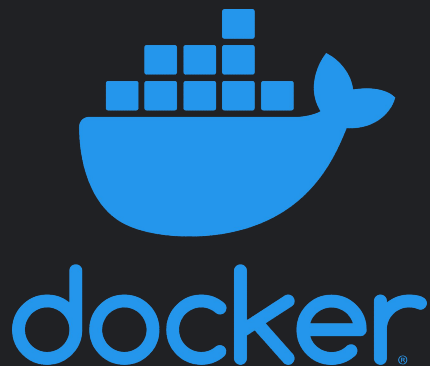


Try to come up with new ideas and build  
unique projects





Learn things that you like...





# Thank you...

[linkedin.com/in/pamodadilranga](https://www.linkedin.com/in/pamodadilranga)

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