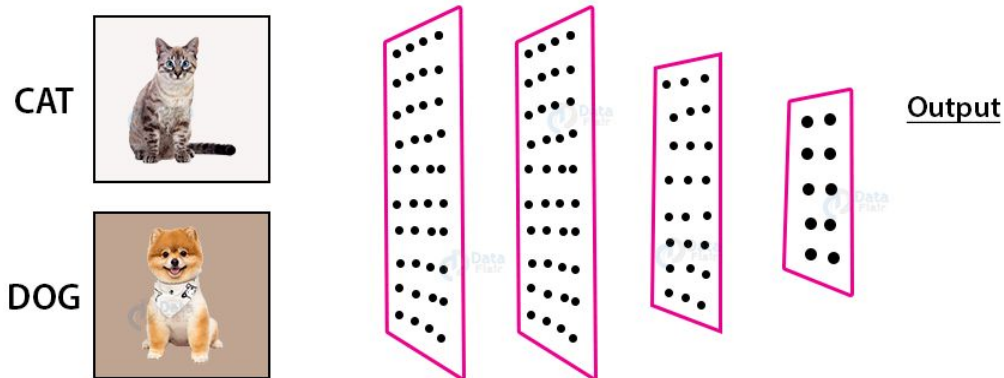


Deep Learning Project Ideas

1. Predict Next Sequence

The very basic project that you can build is to predict the next digit in a sequence. Create a sequence like a list of odd numbers and then build a model and train it to predict the next digit in the sequence. A simple neural network with 2 layers would be sufficient to build the model.

2. Cats vs Dogs

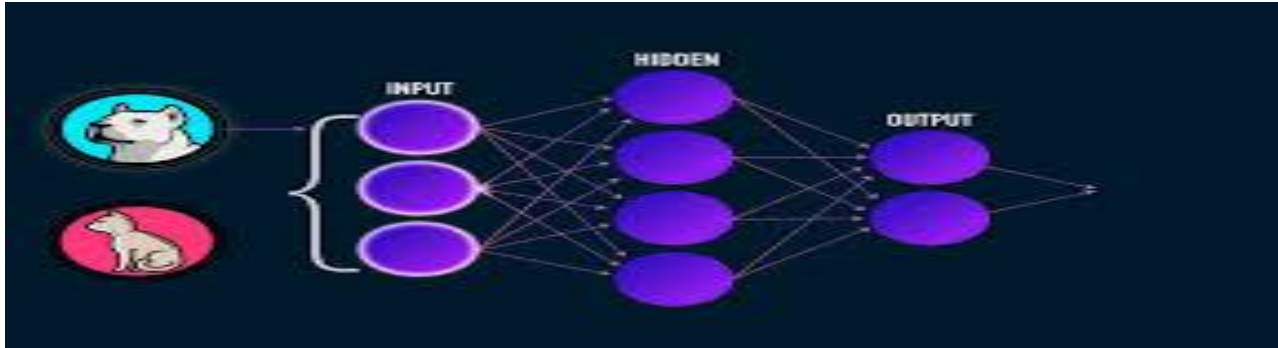


Deep Learning Project ideas



INTERNSHIPSTUDIO

3. Build your Own Neural Net from Scratch



4. Image Classification with CIFAR-10 Dataset

 **Deep Learning Project -
Image Classification with CIFAR-10 Dataset**

	Before	After
Car	    	   
Cat	    	   
Dog	    	   
Tree	    	   
Flower	    	   

Deep Learning Project ideas



5. Human Face Detection

6. Dog's Breed Identification

7. Gender and Age Detection

8. Driver Drowsiness Detection

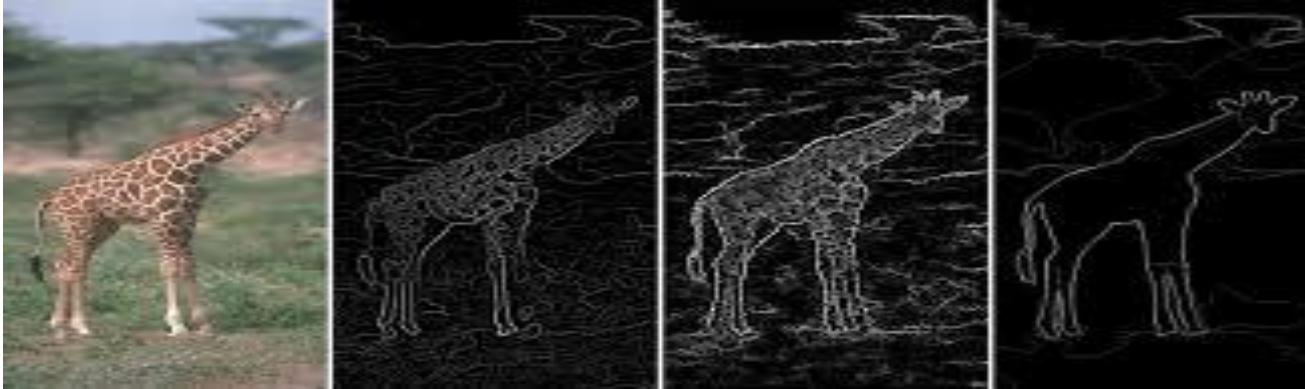
9. Language Translator

Computer Vision Project ideas

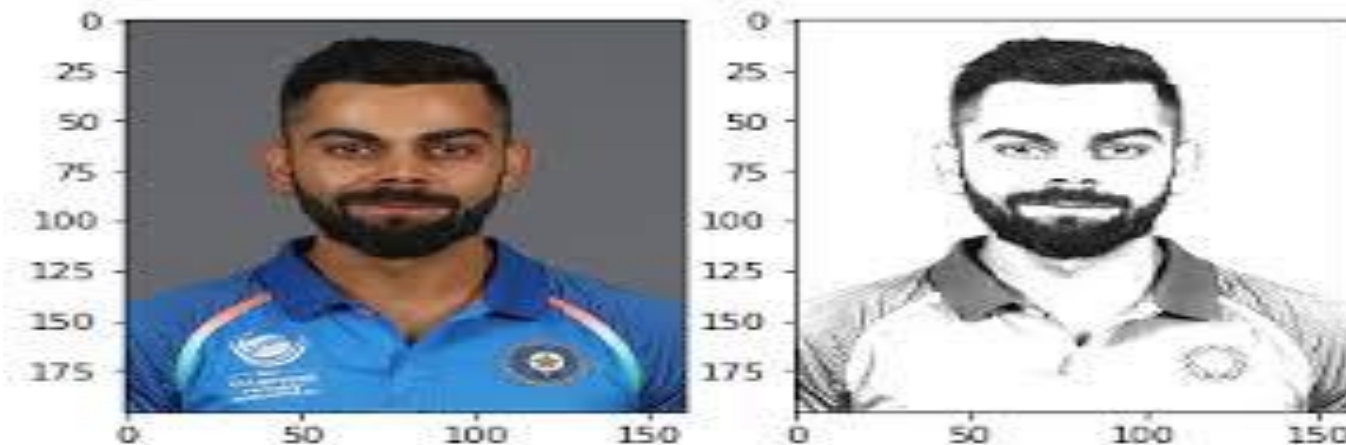


INTERNSHIPSTUDIO

1. Edge Detection



2. Photo Sketching



Computer Vision Project ideas

3. Detecting Contours



4. Collage Mosaic Generator



INTERNSHIPSTUDIO

Computer Vision Project ideas

5. Barcode and QR Code Scanner

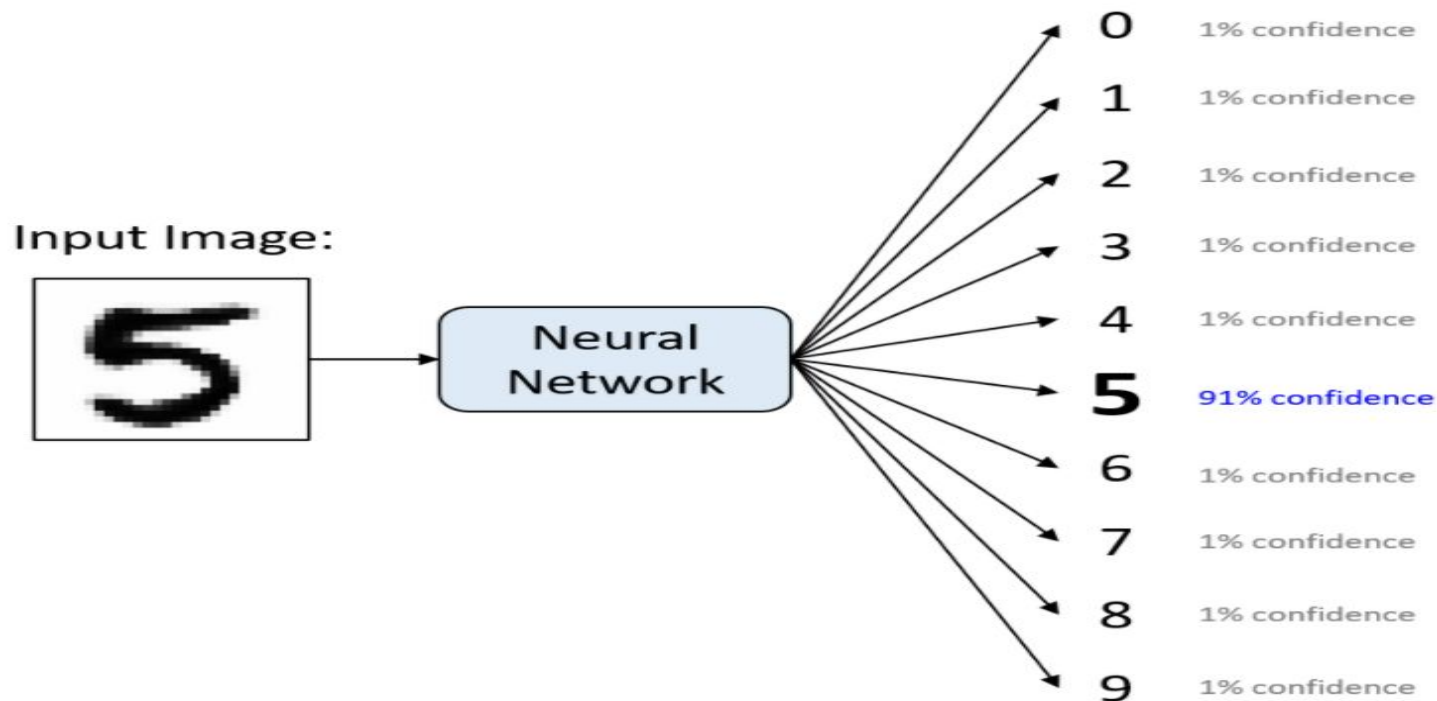


6. Face Detection



Classification of MNIST dataset with CNN

Let's build a convolutional neural network (CNN) classifier to classify images of handwritten digits in the MNIST dataset with a twist where we test our classifier on high-resolution hand-written digits from outside the dataset.

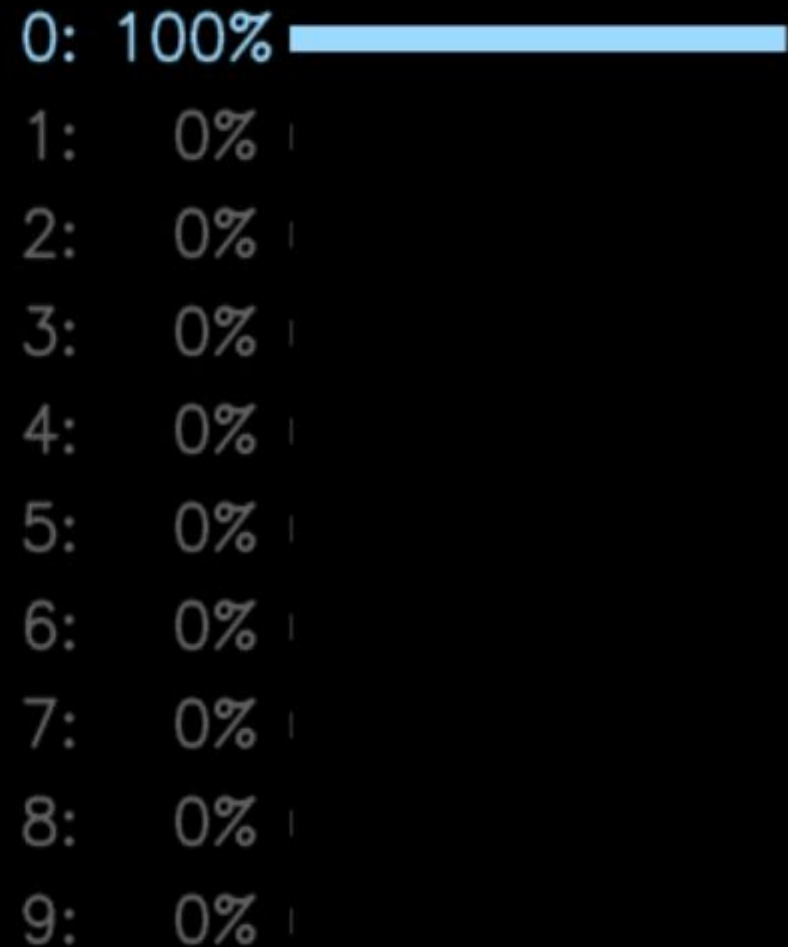


Making Predictions

Input:

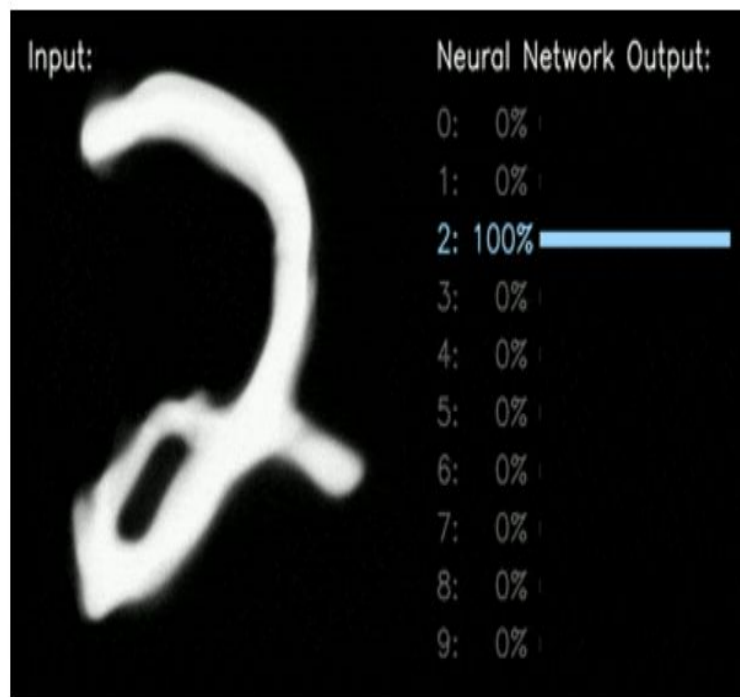


Neural Network Output:



Making Predictions

The above shows the prediction of the network by choosing the neuron with the highest output. While the output layer values add 1 to one, these do not reflect well-calibrated measures of "uncertainty". Often, the network is overly confident about the top choice that does not reflect a learned measure of probability. If everything ran correctly you should get an animation like this:



How to Become a Data Scientist



INTERNSHIPSTUDIO

STEP 1

Ask The Right Questions



STEP 2

Fulfil Data Science Prerequisites



INTERNSHIPSTUDIO

Technical Skills

Mathematics and
Statistics,
Computer Science,
and Engineering

Languages like
Python and Scala

SQL and NoSQL
databases

Machine Learning
techniques and algorithms

Experience with
Big Data and its tools

Analytical tools
like SAS and/or R

Non-technical Skills

Exceptional
curiosity

Business acumen
and domain knowledge

Excellent
communication skills

**A good
Data Scientist**

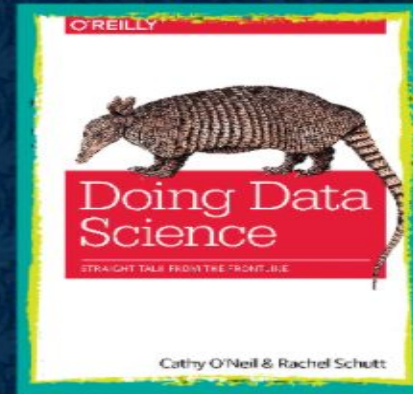
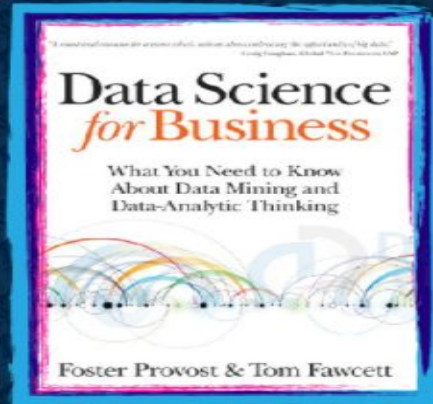
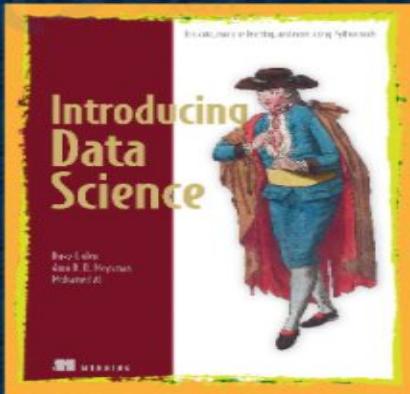
- Has experience with data visualization tools like Tableau, QlikView, and D3.js
- Is proficient in using Big Data tools like Hadoop and Spark
- Portrays dexterity in languages like Python and Scala
- Is experienced in common stats tools like R, NumPy, and MATLAB
- Has expertise in SQL and NoSQL databases like MongoDB and Cassandra

STEP 3

Read the Best Books for Data Science



INTERNSHIPSTUDIO



STEP 4

Go for Data Science Certifications

Principal
Data Scientist - DASCA

SAS Certified Data Scientist

Cloudera Certified Professional
(CCP) Data Science Certificate

IBM Data Science
Professional Certificate

EMC Proven Professional
Data Scientist Associate
(EMCDSA)

Microsoft Professional Program
Certificate in Data Science

STEP 5

Apply for Jobs



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Responsibilities of a Data Scientist

Perform exploratory data analysis

Process, cleanse, and verify the integrity of data

Identify trends in data and make predictions

Generate insights using Machine Learning techniques

Applications of Data Science

Recommendation engines

Automating risk management

Real-time & Predictive analytics

Personalized marketing

Clickstream analysis

Customer behavior analytics