**Python**

Difference between generator and iterator?

What is a decorator and give me an example of that one?

What is a map, reduce, filter functions in Python?

What is the pandas and numpy?

Do you know the operations using the loc in the iloc ?

Difference between the taple and list?

Program on the weather all the brackets are closed in a given expression or not you need to check how you are going to check that one?

Difference between the append and extend?

Get the number of the lines, characters, words In a given file?

What is the difference between multithreading and multiprocessing?

What is a list comprehension?

And write the Fibonacci series prime number programmes?

What is the\_double or the scroll name name equal to main?

What is the difference between the append and extend?

What is the use of init function or method?

How to handle the exception handling in Python? And try to get the even numbers from a list of elements?

What is a Lambda function in Python what is the main use of that function?

What is the difference between the equal to and ‘is’ in Python?

How the memory management is done in a Python?

What is a pythons global interpreter lock?

Which module you are going to use for the log to get the logs in Python?

5 Python is more famous what is the main reason?

Sorting of the dictionary programme?

Creation of a data frame?

Addition of 2 list and the addition has to be one is to one of the first element of the first element of the second list?

Use of get function in dictionary?

Sorting of the elements in a list?

Multithreading concept in Python?

How to call the parent class function from the child class in multithreading?

What is a method overloading and method overriding in Python?

What is encapsulation?

What is a Singleton class what is empty class?

What is a virtual method and abstract method?

Create a data frame by using the dictionary which does not contain any list items there you need to use the square brackets in the data frame paranthesis?

Create a 3 by 3 array by using the numpy?

So get the common substring from the all the list of items in suppose in a list cars carpet karpur carrom Carpenter is there you need to get the output as a car because it is a largest substring from all the items type equal to car Hey?

Show get the use of the Lambda function?

Lock in the eye lock difference?

Combining 2 data frames by using the merge join so when to use the join when to use the merge or when to use the catcat you must know the difference?

Reverse of a string?

What is a deep copy and shallow copy?

Try to reverse office string without using the column methods?

Perform the multiplication to a list of items perform the addition to the list of items?

What is a polymorphism?

What is encapsulation?

Performing the different type of operations on the data frame by using the pandas one?

Creation of arrays by using the numpy and performing the operations?

Why everything in a Python is an object?

Why Python is a functional scripting and object oriented language?

So write a program using the regular expression removing the numbers from a given string?

Raiche Python programme by passing the 2 numbers in the operations it need to be performed the addition subtraction multiplication and the division?

Use of the random module? And get the list of the numbers from zero to 100 ,10 numbers

Use of if for while?

Use of separator in a print function?

What is the main limitation of the Python?

What are different identifiers in a Python?

How the function in a Python is represented?

Try to learn about the naming conventions in Python?

Starts with a single under scroll and the double under scroll and double under scroll and ends with the double under scroll what does it represents? Python language defined identifiers?

How many reserved keywords are there in Python?

Sorting of the different elements in a list?

Ture as 1 and False as 0? Use of type keyword?

Try to see the binary octal hexadecimal representation of a number in a Python?

What is a star ark send the double star arguments passing as a parameter in a function?

How the function can pass a another function in a Python that is the concept of the decorator?

List[begin:end:step]

Type casting in Python?

What are different type of errors in Python?

So why immutability concept was introduced in Python?

All fundamental data types are immutable like int float string complex boolean are immutable?

Why in Python zero to 256 only change the common object for a int variable?

Different characters of a list that is related to the order heterogeneous remove element?

Range is a data type and range is a function both are available and it is immutable?

Use of the enumeration function in Python?

So try to get the different operations of the list tuple set dictionary?

Like remove and insert append extend C get in dictionary?

, dict {} - for dict

Set() --represe Representation?

Duplicate keys are not allowed in dictionary?

Even though the lists values are same doesn't mean that they both are referring to the same address in order to check the weather the 2 elements of the 2 data of 2 ‘==’.

a, b, c, d = 1,2,3,4

split(), join(), in print(sep=’’, end=’’)

replace operator = {} {0},{1}.format(name, sala, gf)

need to go with the for loop and go for the while(not know iteration untilt true condition) loop?

Pattern trees programs?

Break, continue and pass.

While else, for else,

S=’durga’

Del s, del and None – mult object if del obj not deleted, input()

Rstrip(), strip(),

find(), index() not availe value error comes in index() not there -1 comes.

Count() – substring in a given string

s.replace(), upper, lower, swapcase(), title() – EVERY wod uppercase, eemaiing lower, capatalize(), startswith, endswith()

isalnum, isalpha,isdigit, islower, isupper, istitle()

method when in class

function without class

insert()index,element

Difference between equal operator and copy operator in lis?x=y –alising, copy – cloing purpose

a+b it return to c, a.extend(b) it wont return with in exting

list + number ---error typeerror

list\*2 ---> two times the list elements will get.

List comprehension = [x\*x for I in range(0,99)]

N1[10,20,30, 40], n2=[40,50,60] present in n1 not in n2

Max, min utilization check it once

Count(), index(), sorted

t.sort() , sorted() – t.sort is not possible

a, b, c, d = tuple(t) – value error when try to change.

Difference between list and set, dict, tuple?

Different types of the parameters used in the functions like the default ,key word , variable length parameter positional parameters

Add(a,b), add(a,b, c) for this reason we went variable length and variable keyword paramers

In order to loop the kwg we need to use the for loop.

Tell me about the global keyword.

Get factorial of number?

Filter(func or lambda x:x%2==0, list)

Map(lambda l1,l2:x\*y, l1,l2)

S = lambda a,b:a+b ; s(3,4)

Function alisasing

Nested functions

Use of math module, random module, random function bet 0<x<1

Randomint(1,100), randrange(0,100,10)

Zerodivisonerror.ArthimaticeError, filenotfounderror,

Single except block can handle multiple explections.value error, invalidcouponcodeexcpe

Heart related but eye specialist so not able to handle.

Os.\_exit(0) – automatically vm shutdown.

Try -exception, else block, nested try block

How to create the custom exceptions.. if conditions and raise conditions used

Import logging module uses info, debug, defect..

Assert uses instead of print

Types of file handling variables like r, w , a, read(), readlines()

Os.path.isfile(‘dfdf’)

Operations on directories –cureent , new, existing, list of contents,

Os.getcwd(), os.mkrdirs(‘siva/python/db’), os.rmdir(), os.removedirs, os.rename

Listdir(), walk() it is a

Dirpath, dirnames, filesnames using walk function

Os.system()

Pickling and unpickling.

State of object to file

Obj contains 1000 properties to file ---> picking – other lang serialization

Dump

Load(file), why save object to the file –in future

Static, non statice variable

Import gc – garbaagee collector

Has and is a relationship in multithreading

In java constructoe not available to the child but in python everything Is available, exept iparent nstance variable by using self variable.

Same child and parent variable – then most recent variable.

Super key word- by using access parent everything

Super().\_\_init\_\_()

Regular expressions – re.compile to find the pattern /s,-space

/S except space

/d – any digit

/D – except dogits

\w= any word charc(alpha numerice

\W – any character except word) ---match at the beginning of the obhect

~,^

Findall,

MRO

Import threading

Only operater overload not other overloading

Polymernsims- loading, ridding

Generative AI – Project – RAG

What is a transformer

what is the difference between the chart gpt and bERT

what is the main importance of the BERT

what is encoder and what is a decoder

what is the self attention using mechanism in Transformers

what is encoding what is embedding

Why need in addition to the self attention mechanism the decoder utilises the cross attention mechanism to focus the relevant parts of the input sequence

could you please explain the architecture of bert model.

What is a positional encoding

what is a layer normalization

what is a positional encodings

one of the important thing is like self attention and the positional encodings.

Britain and the fine tuning transformer based model like the bird are typically pre trained on the Indian supervisor supervisor which allows them to learn rich presentation of this preteen models can be fine tune to specify download visual way reading to the improve the faster the transfer learning

what is a transfer learning

What is the drawback of the recursive neural network

what is meant by the embedding interview questions on the board model.

BERT Model.

What is the full form of the Bert model.

Can you please explain how Bert model is pre trained and fine tune for downstream task hey

what are the key components of the BERT architecture

how does the Bert handle the bidirectional contest in the natural language understanding task

what are some advantages of using the Bert compared to the traditional language models like the word embedding or the recurrent neural networks

can you describe the free train objectives used in the training of the be active model

how does the BET achieve the contextual representation of the words and tokens in a sentence

what are the some common applications of the Bert in the natural language processing beyond the text classification.

How does the BT model handle the out of vocabulary boards or the tokens

what are the some limitations or challenges associated with using the Bert model in real time world application

how can be it be fine tune for specific domain on specific task for specific nlp task

can you discuss any recent advancements or the variation of BRT in an NLP research community

So lot of tables are there so while using the joint it is taking a lot of time how we need to do the optimization.

Memphsis-

So the first question he had asked me regarding the at the distinct dates Richard the user had bought the product so try to give me that output so by using the one table he had given me in the chat window pause so I had done the group by of the users and the dead and taken the having the value of the count of the date is greater than one in that way I had failed that one.

And apart from the the second thing is like he had asked me the events occurred by the red and the e yellow events are there so I want the users who add take a wire cut the Roly the ready events I don't want the yellow event users that is another approach

and the 3rd thing is like he had asked me about the difference between the gradient descent stochastic and the mini batch stochastic gradient descent.

And different and simple techniques used it different ensemble technique.

So will you go with the accuracy model or interpretive model I told that most of the time the data is imbalanced dataset so I will go with the interpretation of the model.

How do you do the feature selection technique in the nlp natural language processing.

What are the different feature selection techniques are you today Indian LP nlp. Hey

Missing values normalization outliers imbalanced data set next is the feature selection

How to find the important features in a given data set?

Dropping the constant values.

By using the correlation function.

ChiSquare test.

So then never there is a lot of features are there means there will be a situation called as a curse of dimensionality will occurs. As the number of the features increases the accuracy decreases so in order to increase the accuracy we need the data at the 2 number of the features.

First we try to remove the features which is having the constant values throughout all the rows so for that we use the SK loan dot feature selection import the varianceThrusthold. Feature selector removes all the low variant features. Variance = 0.

After splitting we do the. Fit or the transform because we avoid the overfitting which is done told by the Krishna Naik. I need to look into this one.

So another one thing is like if they invent features are more highly correlated with the dependent features than it is a highly important feature. So we are not going to remove that one, it plays a prominent role.

But Not within the. Independent features. If they are highly correlated within the each other than it is better to take the. One feature. Suppose if there are 3 features here there out of which WI Fi. Take the one feature is enough. Show here we are taking the correlation of the data set and we are giving the. Trust hold for the correlation matrix and we are removing the unwanted. Features.

Mutal\_info\_classifier.

Show there are so many various techniques are there in this random forest exit boost recursive feature elimination and the correlation analysis these are the 4 methods I know very well by this we can get the important features and also lasso regression technique is the one of the technique by this we can get the important features.

In random forest the model thought fit XY means we will get the model by using that model model dot feature get feature importance we are going to get the feature importance why this we are going to get how often that feature is used in the split of the data in this way we use the random forest to get the important features.

The same way the exhibit boost also having the exist exit classified or 5th of xy so there also feature importance is the one of the function is there it is going to give the what are the important features similar to the random forest these models.

By using the recursive feature elimination we can get the important features also here suppose if we give the if we take the logistic regression then from the SQL if we take the feature selection and import r fee we are going to take the logistic regression model and in rfe if we take the parameter as a model and the number of the features to be selected so the 50 and we are going to get the rank of the each features.

So and also we are having the skull features the select the K best to select the top K based statistical test on statistical test.

Lasso is the one of the technique we use it escalator linear model where the last so we can import it so the lasso and if we give the alpha that is the learning rate and model dot fit XXY NP dots some modal questions medical to zero non zero positions so these are the methods we can use it in order to get the top and features are to get the important features.

Cognigent ---

My Project is total draw back for me

He asked me about

Wipro -the feedback is good for the Wipro he told that you are knowing about the generate way its adds a flash to your profile apart from that try to load the deep flooring gods of channel kick off and very carefully it adds some more ads to the profile. Hey

Introduction of myself to that 1I need to improve a lot.

And coming to the projects he has asked me about the nltk and spacy

what is the tokenizer you had used it?

And lemmatization and the stemming difference

what is embedding in different kinds of the embedding used it,

how the vo to wrd2ector works and how you are going to bill that one

difference between the Elysium and the recurrent neural network

tell me about the project related to the deep learnings which you had used it

so an opinion you had used the text embedding one model and the class model you had used it I think?

----how do u create the wokspace