



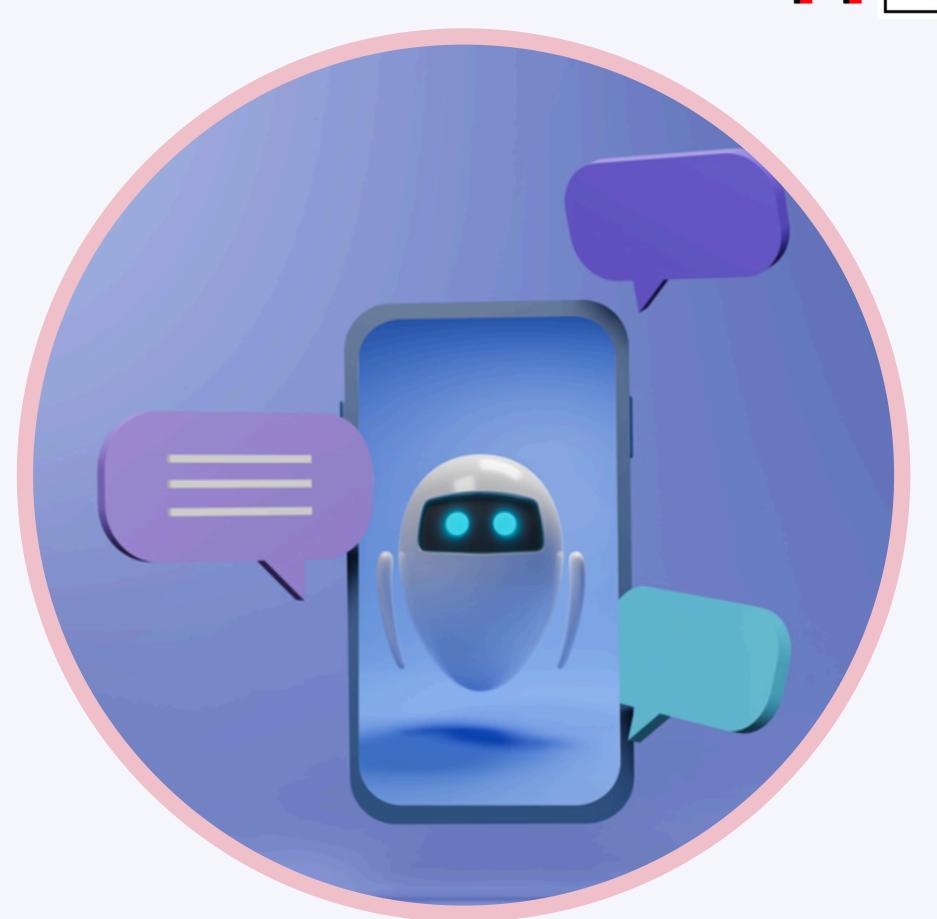


# KING CODER

King Coder is a web-app that can serve as one-stop solution to all challenges faced by coders. Helps the coder in many ways possible













# **Members**

1. Srinadh vura







# Objective

To build a web-app that can address most of the challenges faced by everyone while they code. Be it professionals, learners, market leaders (with no CS background).

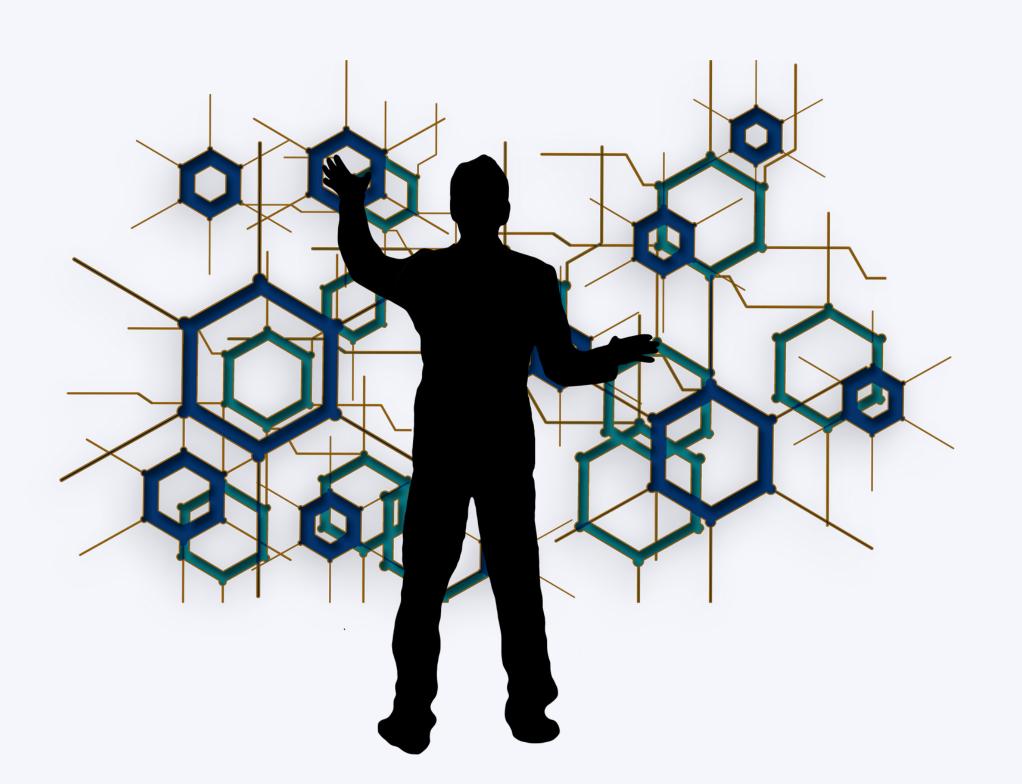






# Technologies

- 1.Python
- 2.Streamlit
- 3. Mistral Al
- 4. HTML, CSS





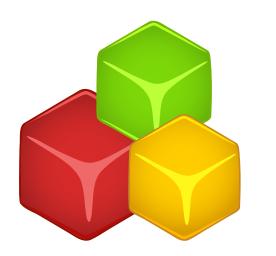




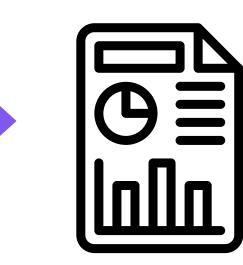
**USER** 







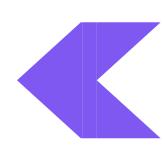


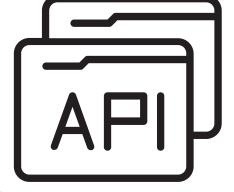




MAKE REQUEST TO CODESTRAL AP







**DISPLAY RESULT TO USER** 







# On the fly

Responds to the user very quickly



# **Lucid Interface**

The web app is easy to use and provides high levels of usability



## **Precise**

The King Coder is well versed and precise in solving the coding challenges



# **Various Applications**

The King Coder can perform many coding tasks



# Wide support

The app supports 20 programming languages as of now.



# **Accessibility**

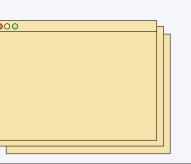
King Coder is a web application and can be accessed by any device that is connected to internet





# King Coder can be used in numerous ways. Some of the use cases are

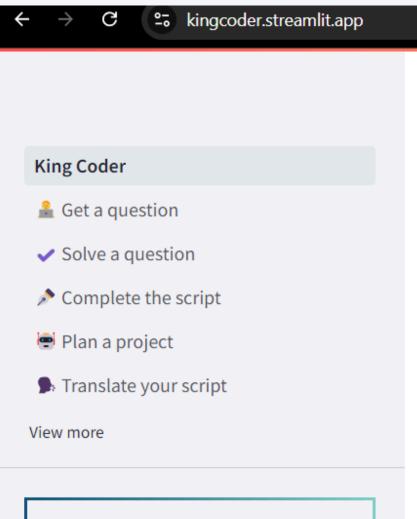
- Learn DSA to crack interviews
- Explain you any script without enough documentation
- Plan the study projects and outline a plan to complete them
- To help you complete scripts, and help you clear blockers
- Translate the scripts seamlessly between languages
- Learn new programming language by translating your own scripts



# Interface Light mode







Choose a task from above

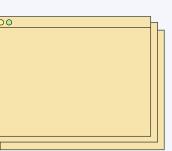
# Hi, there!!! Welcome to the court of majestic King Coder 👑

King Coder is here to help you with your coding journey.

I can help you with the following:

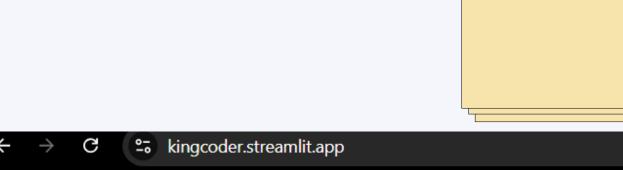
- 1. Test you with an amazing coding question
- 2. Solve your coding problems in any language
- 3. Complete your incomplete scripts
- 4. Plan a project for you
- 5. Translate your code to any language
- 6. Explain any script you have

Choose the task you want me to do from the sidebar on the left.



# Interface Dark mode









### King Coder

- Get a question
- ✓ Solve a question
- Complete the script
- Plan a project
- Translate your script

View more

Choose a task from above

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# Examples



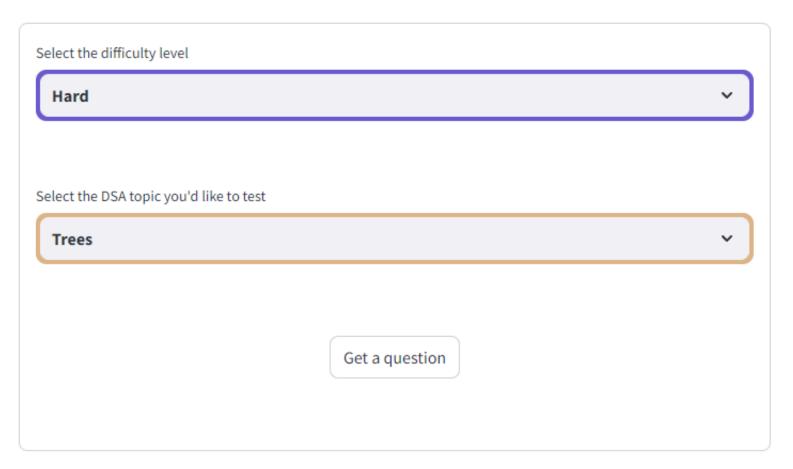


### King Coder

- Get a question
- Solve a question
- Complete the script
- Plan a project
- Translate your script
- Explain a script



Choose your preferred settings and get ready to solve the question.



Sure, here's a question for you:

Question:

Write a function <code>is\_balanced(root)</code> that takes the root of a binary tree as input and returns True if the tree is height-balanced, and False otherwise. A height-balanced binary tree is defined as a binary tree in which the depth of the two subtrees of every node never differ by more than 1.

T . . .



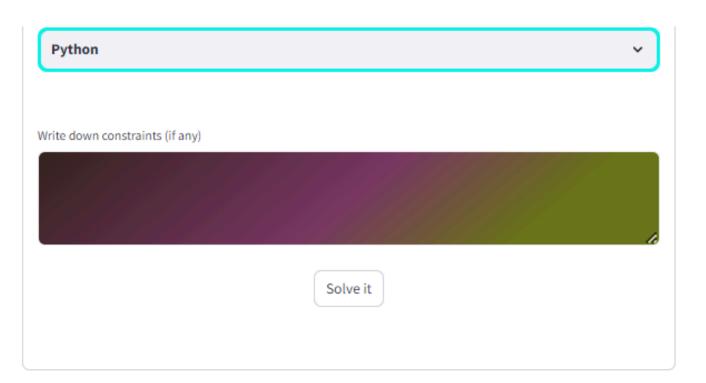


### King Coder

Get a question

### Solve a question

- Complete the script
- Plan a project
- nanslate your script
- 😰 Explain a script



Here is a Python solution for the problem:

```
class Node:
   def __init__(self, data):
        self.data = data
        self.left = None
        self.right = None
def height(node):
    if node is None:
   return 1 + max(height(node.left), height(node.right))
def is_balanced(root):
    if root is None:
        return True
   lh = height(root.left)
   rh = height(root.right)
   if (abs(lh - rh) \leftarrow 1) and is\_balanced(root.left) is True and is\_balanced(root.left)
        return True
    return False
```





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