

CHANDAN VERMA

DATA SCIENTIST

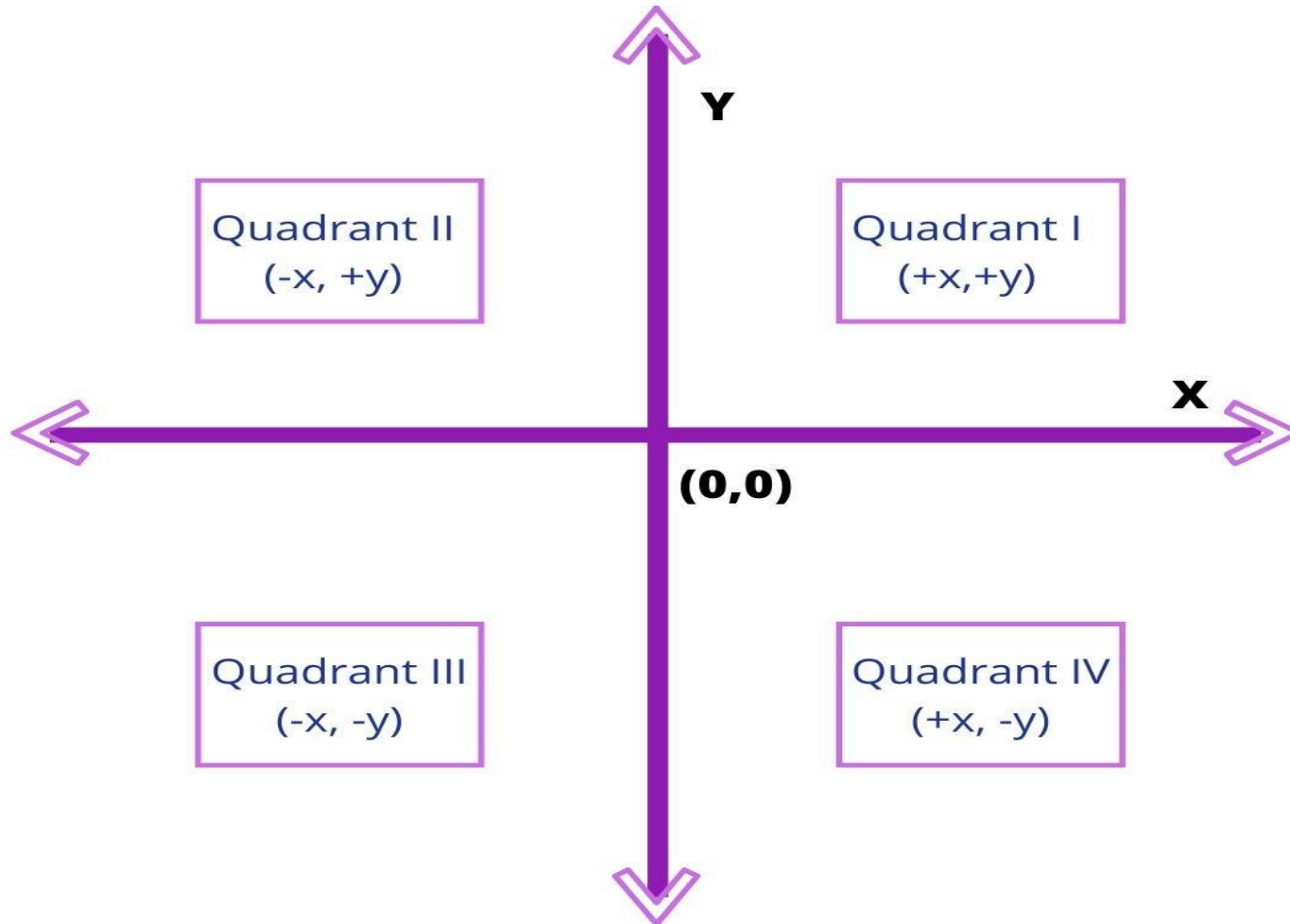


turtle

```
pip install PythonTurtle
```

turtle is a pre-installed Python library that enables users to create pictures and shapes by providing them with a virtual canvas. The onscreen pen that you use for drawing is called the turtle and this is what gives the library its name.

Coordinates



Moving the Turtle

- Forward
- Backward
- Left
- Right

Turtle motion

- forward() | fd()
- backward() | bk() | back()
- right() | rt()
- left() | lt()
- goto() | setpos() | setposition()
- setx()
- sety()
- setheading() | seth()

home()
circle()
dot()
stamp()
clearstamp()
clearstamps()
undo()
speed()

Turtle's state

position() | pos()

towards()

xcor()

ycor()

heading()

distance()

Setting and measurement

- `degrees()`
- `radians()`

control

Color control

color()
pencolor()
fillcolor()

More drawing control

reset()
clear()
write()

Drawing state

pendown() | pd() |
down()
penup() | pu() | up()
pensize() | width()
pen()
isdown()