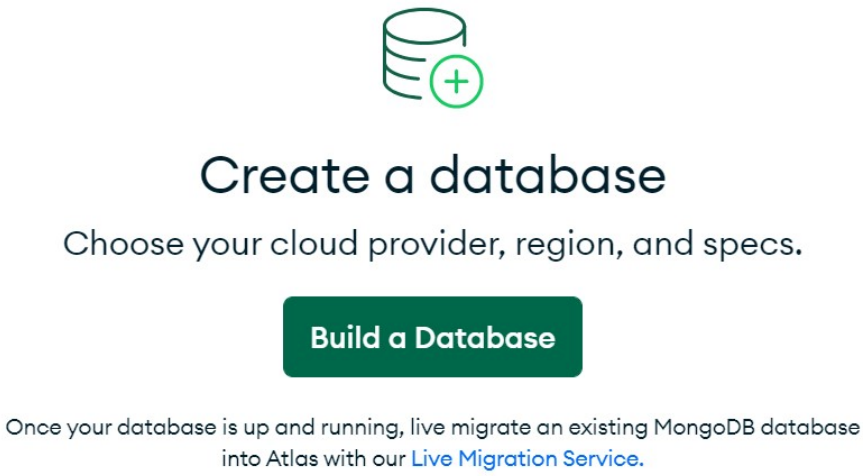
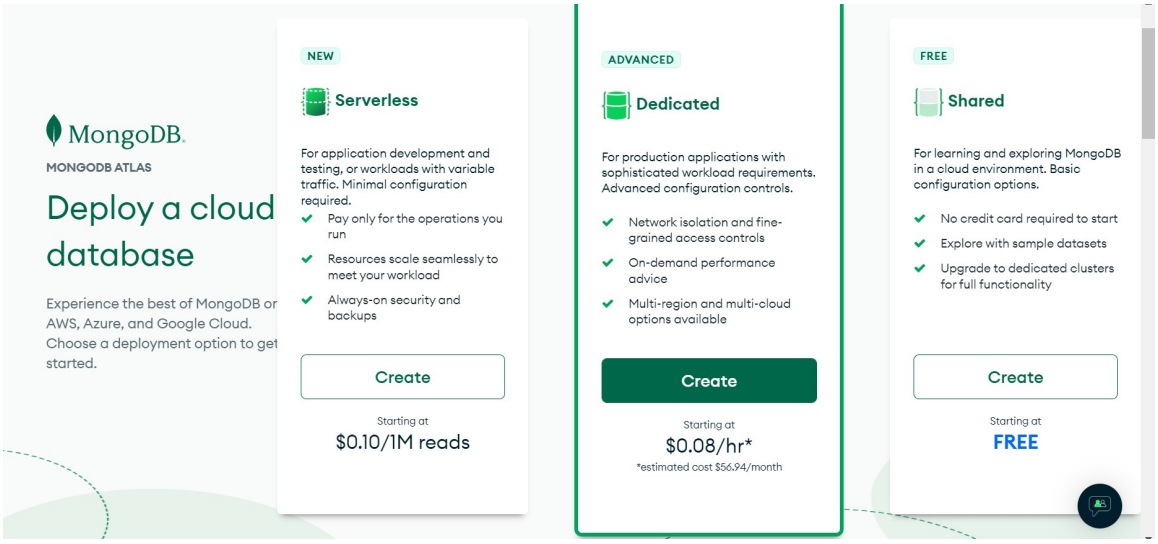
Mongodb+python

Login to mongodb



Click on built a database



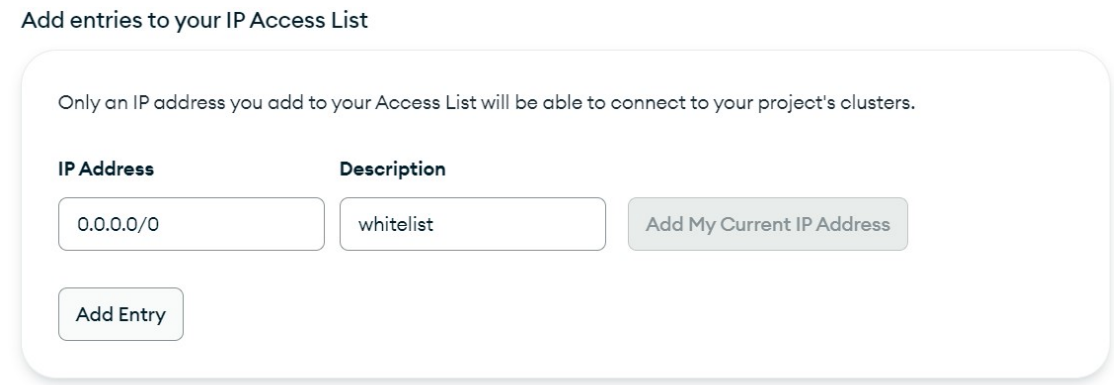
Click on create in free shared

Scroll down and find create cluster and click on it

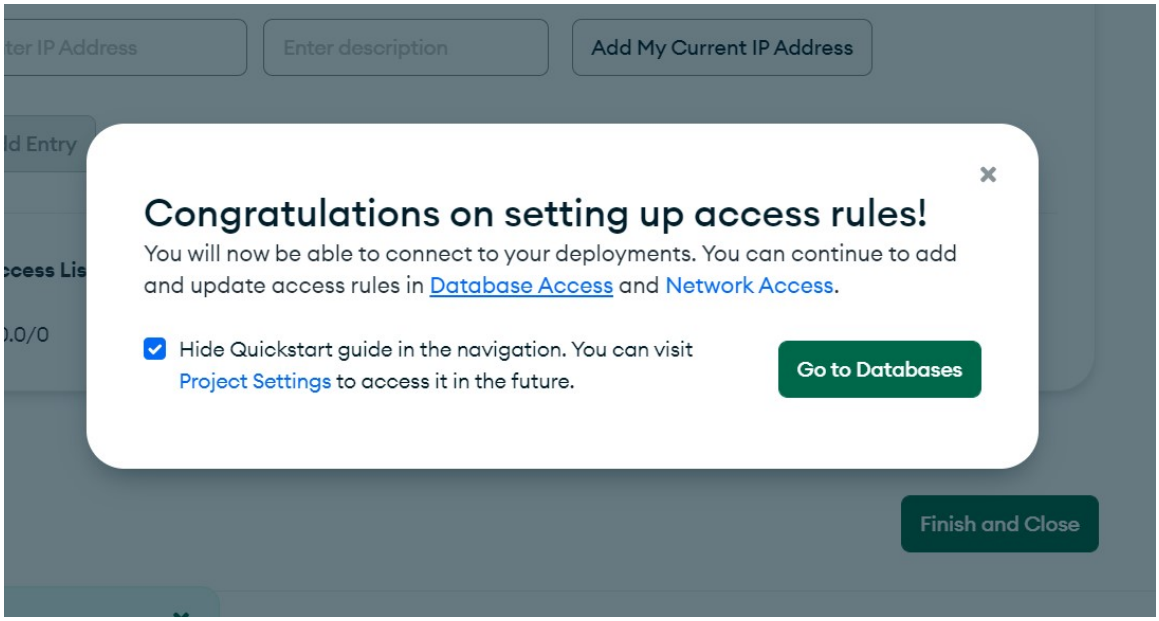
Now give a simple username and password.... which does not have a special character

Then click on create user

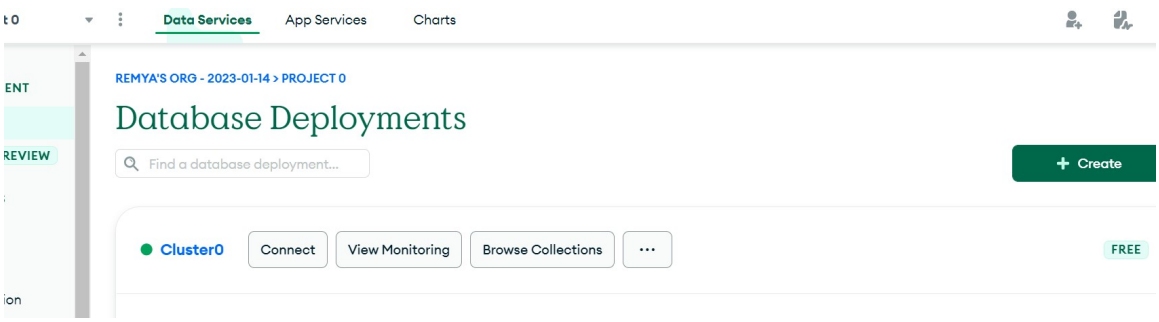
Now add ip address and description as shown below



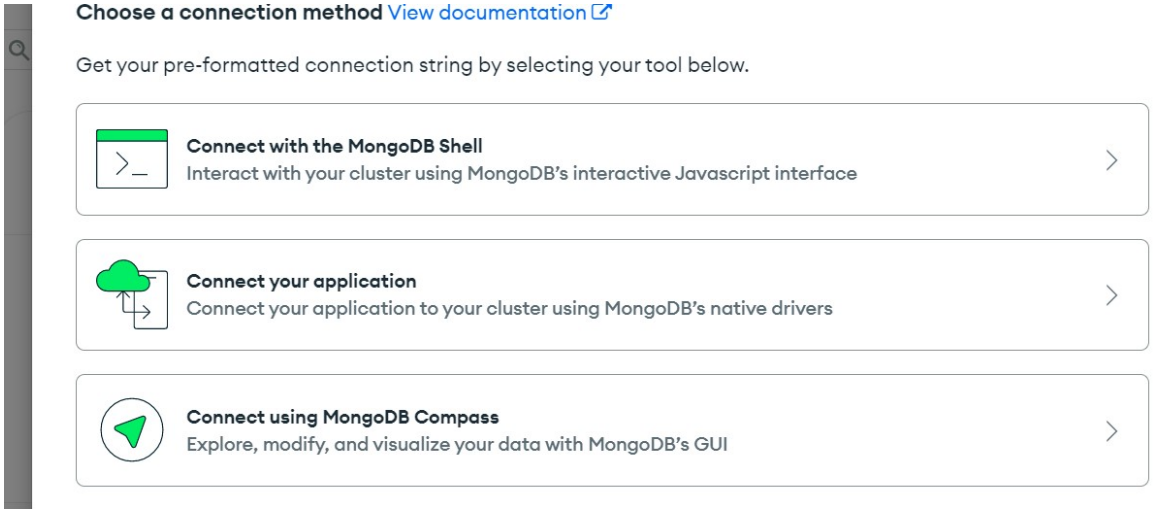
Then click on add entry and then click on Finish and Close



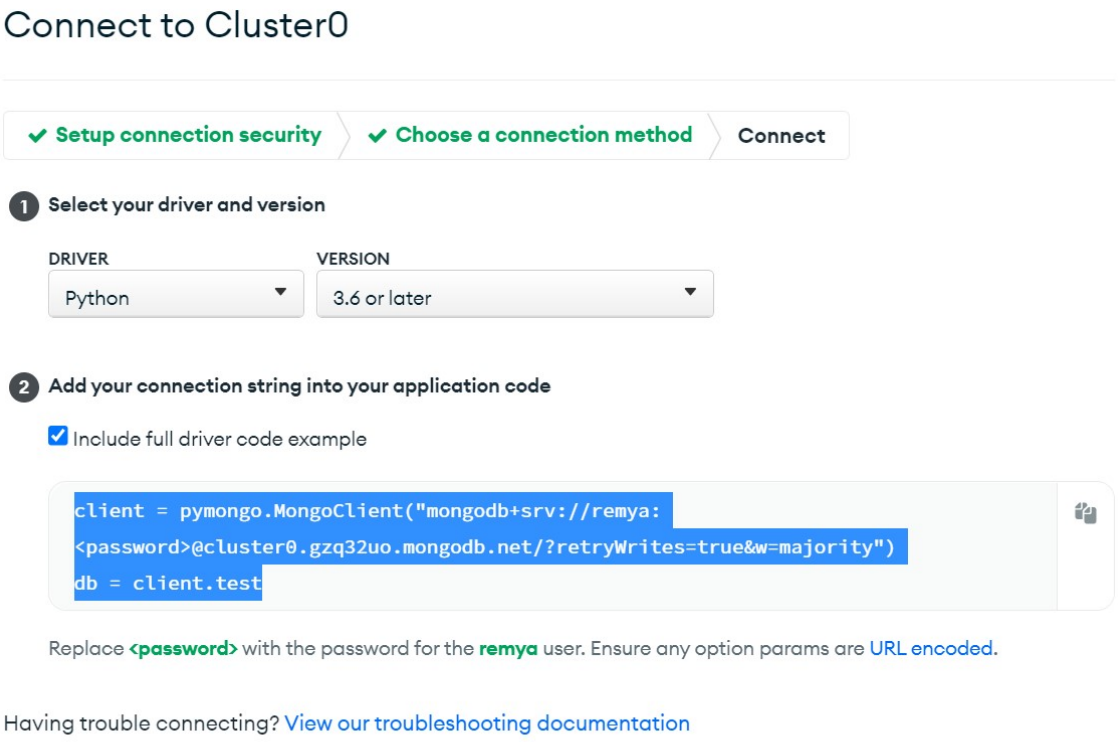
Now click on Go to Databases



Now click on connect



Click on connect to your application



Now choose python in deliver and 3.6 or later in version then select the url as shown above

Then click on close

Now open jupyter notebook and write following code

```
In [1]: pip install pymongo
```

```
Defaulting to user installation because normal site-packages is not writeable
Collecting pymongo
  Downloading pymongo-4.3.3-cp39-cp39-win_amd64.whl (382 kB)
     ---------------------------------------- 382.5/382.5 kB 3.4 MB/s eta 0:00:00
Collecting dnspython<3.0.0,>=1.16.0
  Downloading dnspython-2.2.1-py3-none-any.whl (269 kB)
     ---------------------------------------- 269.1/269.1 kB 16.2 MB/s eta 0:00:00
Installing collected packages: dnspython, pymongo
Successfully installed dnspython-2.2.1 pymongo-4.3.3
Note: you may need to restart the kernel to use updated packages.
```

```
In [1]: import pymongo


client = pymongo.MongoClient("mongodb+srv://remya:remya@cluster0.gzq32uo.mongodb.net/?retryWrites=true&w=majority")
db = client.test
print(db)
```

```
Database(MongoClient(host=['ac-dhcudeq-shard-00-01.gzq32uo.mongodb.net:27017', 'ac-dhcudeq-shard-00-02.gzq32uo.mongodb.net:27017', 'ac-dhcudeq-shard-00-00.gzq32uo.mongodb.net:27017'], document_class=dict, tz_aware=False, connect=True, retrywrites=True, w='majority', authsource='admin', replicaset='atlas-39unyw-shard-0', tls=True), 'test')
```

in above code : client = pymongo..... line is actually the url copied editted with username and password

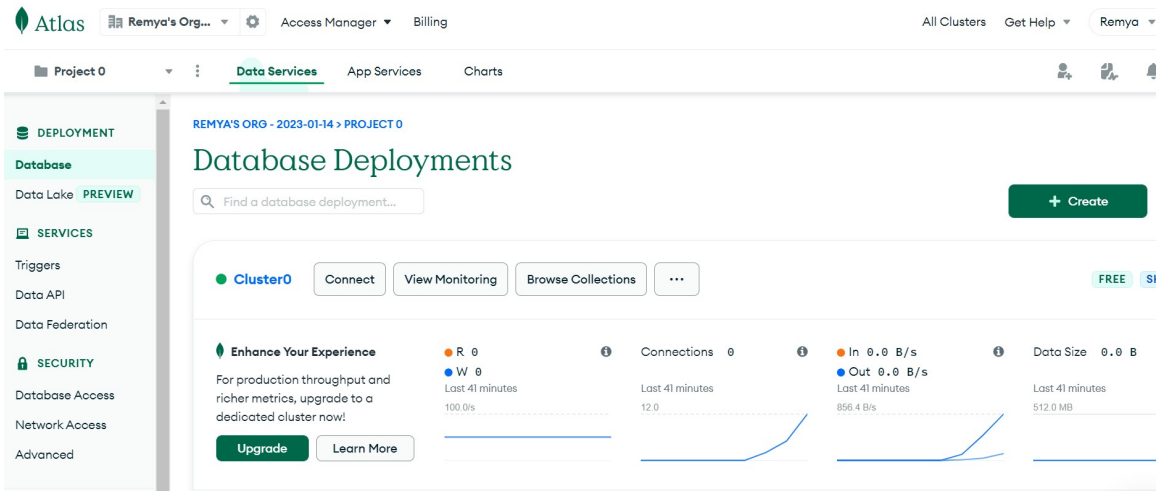
Now write the following code and execute them:

```
In [2]: db = client['ineuron']
        col = db['course']
        col1 = db['students']
```

```
In [3]: data = {
            'course_name' : ['full stack data science ','full stack data analytics' , 'big data' , 'devops' , 'blockchain'],
            'course_instructor' : ['sudhanshu' ,'anand' , 'shashank' , 'hitesh' , 'navin'],
            'start_date' : '12-12-2023',
            'duration' : 'six months',
            'mode' : 'live online',
            'certification' : 'yes',
            'prequisite' : ' Dedication',
            'resume' : 'yes',
            'mockinterview' : 'yes'

        }
```

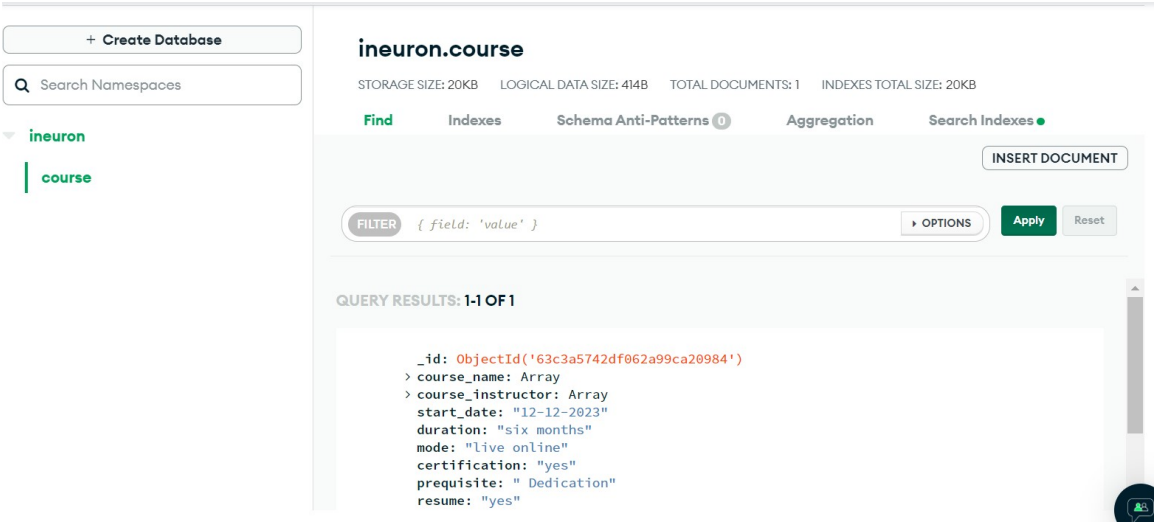
```
In [4]: col.insert_one(data)
Out[4]: <pymongo.results.InsertOneResult at 0x226fa351820>
```

Now check mongodb...



Click on Browse collections

And find the row inserted recently in collection

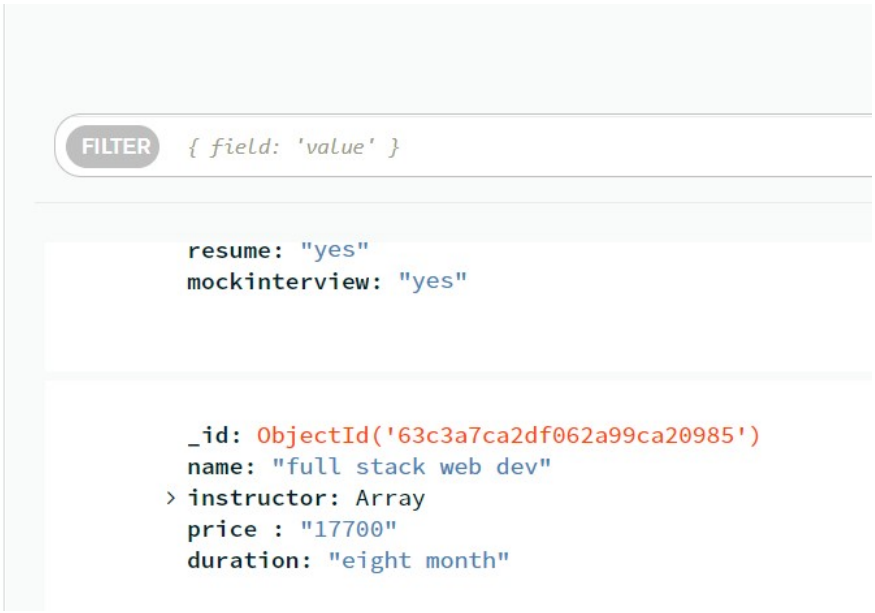


We can insert another row of completly different schema in mongodb as shown below

```
In [5]: data1 = {
            'name' : 'full stack web dev' ,
            'instructor' : ['hitesh' , 'anurag'],
            'price ' : '17700',
            'duration' : 'eight month'

        }
```

```
In [6]: col.insert_one(data1)
Out[6]: <pymongo.results.InsertOneResult at 0x226fa351e20>
```

Now on refreshing mongodb.... you can find the new row also:



Also multiple rows can be inserted at a time as shown below:

In [7]:

```
data2 = [{
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'

},
    {
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'

},
    {
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'

},{
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'
```

```
},
    {
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'

},
    {
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'

},
    {
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'

},
    {
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'

}
]
```

```
In [8]: col.insert_many(data2)

Out[8]: <pymongo.results.InsertManyResult at 0x226f81943a0>
```

Results updation of those rows in mongodb:

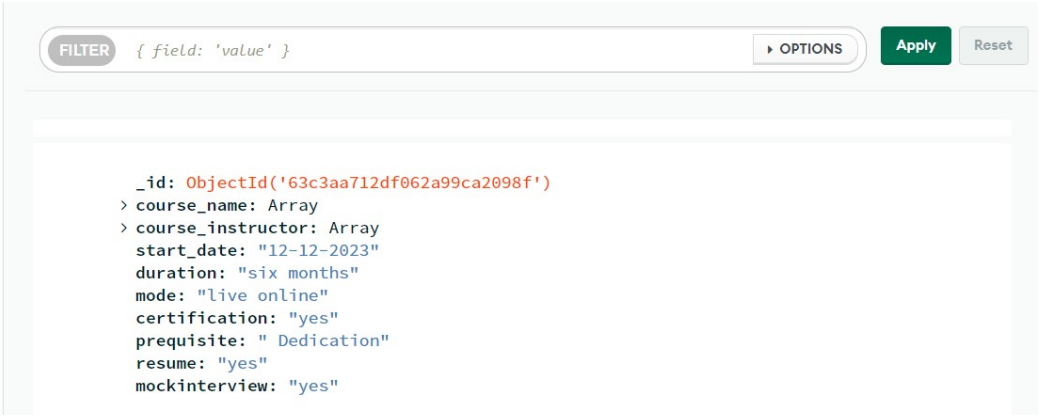
Similarly more rows with different schema can be added:

In [9]:
```
data3 = [{
    'name' : 'full stack web dev' ,
    'instructor' : ['hitesh' , 'anurag'],
    'price ' : '17700',
    'duration' : 'eight month'

} ,
    {
    'course_name' : ['full stack data science ','full stack data analytics' , 'big data' , 'devops' , 'blockchain'],
    'course_instructor' : ['sudhanshu' ,'anand' , 'shashank' , 'hitesh' , 'navin'],
    'start_date' : '12-12-2023',
    'duration' : 'six months',
    'mode' : 'live online',
    'certification' : 'yes',
    'prequisite' : ' Dedication',
    'resume' : 'yes',
    'mockinterview' : 'yes'

}

]
```

In [10]:
```
col.insert_many(data3)
```

Out[10]:
```
<pymongo.results.InsertManyResult at 0x226fa2be9a0>
```

Shows them in mongodb:



Rest coding is there in python_and_mongodb.ipynb