In [ ]:
```
#SGD(Stochestic Gradient Descent)
>it is also based on linear model(i.e. uses eq of line)
```

In [1]:
```
from sklearn.linear_model import SGDRegressor
```

In [3]:
```
#model=SGDRegressor(loss=,learning_rate=,tol=,max_iter=,no_iter_no_change=,shuffle=,fit_
```

In [4]:
```
from sklearn.datasets import load_diabetes
```

In [5]:
```
dib=load_diabetes()
```

In [6]:
```
X=dib.data
y=dib.target
```

In [7]:
```
model=SGDRegressor()
model.fit(X,y)
```

```
C:\Users\Ducat\anaconda3\Lib\site-packages\sklearn\linear_model\_stochastic_gradient.py:
1561: ConvergenceWarning: Maximum number of iteration reached before convergence. Consid
er increasing max_iter to improve the fit.
  warnings.warn(
```

Out[7]:
```
▾ SGDRegressor
SGDRegressor()
```

In [14]:
```
model=SGDRegressor(max_iter=6000)
model.fit(X,y)
```

Out[14]:
```
▾       SGDRegressor
SGDRegressor(max_iter=6000)
```

In [15]:
```
model.score(X,y)
```

Out[15]:
```
0.5069775588907031
```

In [ ]:
```

```