**IDEA:**-

to give for example:- bearing capacity(or any index properties) of a soil with probability of confidence (ubc(property),P(E))

**How to achieve this?:-**

We will be using supervised learning (ML) to feed input layer data of neural network

**data required**:-

1) We are going to use supervised learning so a **labelled** data having variation of ubc with physical properties that are observed in site

2)CNc+Y1DNqRq1+0.5YbNyrq2(bearing capacity parameters) variation with physical properties observed on site

**Math required:-**

As variation of property with parameters occur individually(independent)

(example fck vs temp and fck vs humidity ).......we need some technique to combine these variation so that different x yields to single y(ie fck vs (temp,humidity))

**Computation required:-**

1) python + scientific python(numpy,scipy,matplotlib){all these things I know already}

2) basic understanding of ml(supervised learning)

3)basic understanding of neural network

4)neural net which is to be used for solving these problems(recurrent net,Deep belief net or covolutional net,RNTN etc)

**Some links i have been thru:-**

**1)**[**https://www.youtube.com/watch?v=P2HPcj8lRJE&list=PLjJh1vlSEYgvGod9wWiydumYl8hOXixNu&index=2**](https://www.youtube.com/watch?v=P2HPcj8lRJE&list=PLjJh1vlSEYgvGod9wWiydumYl8hOXixNu&index=2)

**2)** [**https://www.youtube.com/watch?v=Ejec3ID\_h0w**](https://www.youtube.com/watch?v=Ejec3ID_h0w)

**3)** [**https://www.youtube.com/watch?v=F1ka6a13S9I**](https://www.youtube.com/watch?v=F1ka6a13S9I)

**4**[**https://www.youtube.com/watch?v=Se9ByBnKb0o&index=1&list=PLXO45tsB95cJHXaDKpbwr5fC\_CCYylw1f**](https://www.youtube.com/watch?v=Se9ByBnKb0o&index=1&list=PLXO45tsB95cJHXaDKpbwr5fC_CCYylw1f)

**5)** [**https://www.youtube.com/watch?v=N4gDikiec8E&index=7&list=PL2-dafEMk2A7YdKv4XfKpfbTH5z6rEEj3**](https://www.youtube.com/watch?v=N4gDikiec8E&index=7&list=PL2-dafEMk2A7YdKv4XfKpfbTH5z6rEEj3)