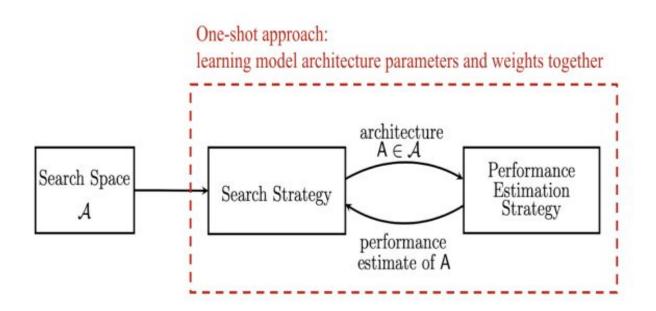
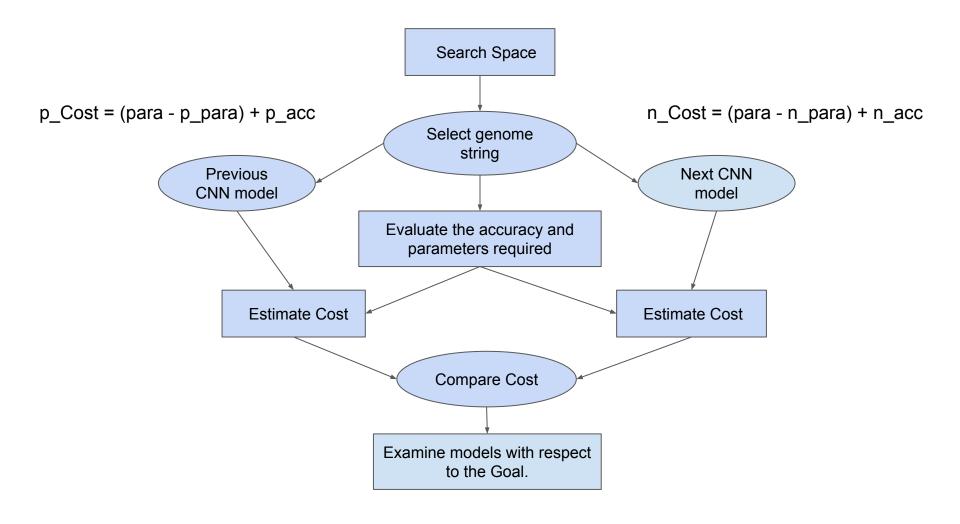
## Al Project

Create a search function to search in a NAS space for the best performing **CNN architecture** on fashion-mnist.

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## Methodology Followed:





## Result

1

```
1
0 iteration cost 7552.891900002956
2 iteration cost 602862.7681000233
Next 2 602862.7681000233
[1, 1]
Iterations Req 1
Best Model Found: NC 64 1 gelu; NC 64 3 gelu; NC 64 1 gelu; RC 128 3 gelu; NC 128 1 gelu; NC 128 1 gelu; RC 256 3 gelu; FL relu; with Accuracy 0.9215000271

print(model_Accuracy)
print(model_Parameters)

[0.8919000029563904, 0.921500027179718, 0.7681000232696533]
[600394, 607946, 5084]
```

2.

[3, 4, 5]

```
Iterations Req 2
Best Model Found: RC 10 3 tanh; NC 20 3 relu; RC 10 3 swish; FL swish; with Accuracy 0.7602666616439819

print(model_Accuracy)
print(model_Parameters)

[0, 0, 0.47369998693466187, 0.6786333322525024, 0.09884999692440033, 0.7602666616439819, 0, 0, 0, 0]
[0, 0, 54346, 37834, 29578, 5084, 0, 0, 0, 0]
```

## ThankYou!