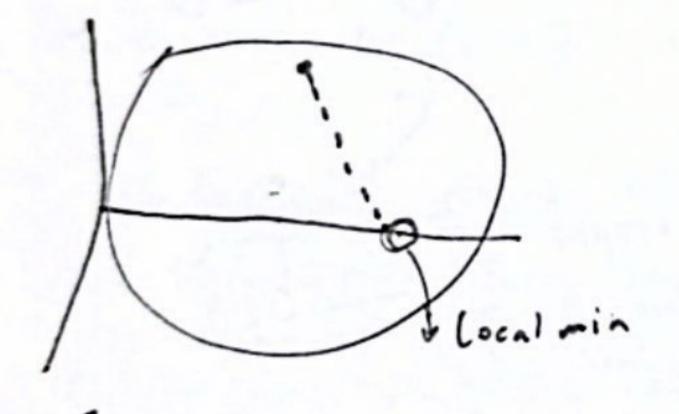
## NN cont

Stochastic Gradier Promit

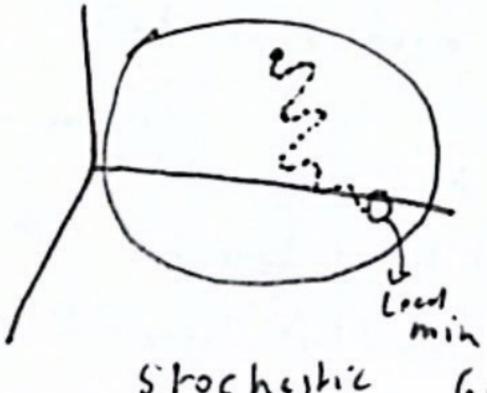
- Will normal GD me herd to eval every training ing and add up all its influence is we find the cost of each training image to being it them to one drewnt step with GD and repets this again and again while some local min is repeated.

But this is slow

- So instal and more commonly we randomly shaffel training data the divide it into batches the wee do a single step is eval one batch and apply Gradient Decemb (Backprop once for this batch and we repet this process for all batches, this is much fash



Gradier Decarr U Earpfully cole stop in strepper Direction



Stochestic Gradert Prent H faster less calculated steps but converging on local min at end

NLP (Natural Language processing) is the intersection of CS, AI and linguistics

goal: to enable computers to and understons interprit and agencerate human language

Excitext classification (NB) LLM's are large scale

Machine transtation implimentations of NCP

Sentiamentanagesis LLM's unify our NLP

43

text summarization takes under one ming LLM

Scanned with CamScanner