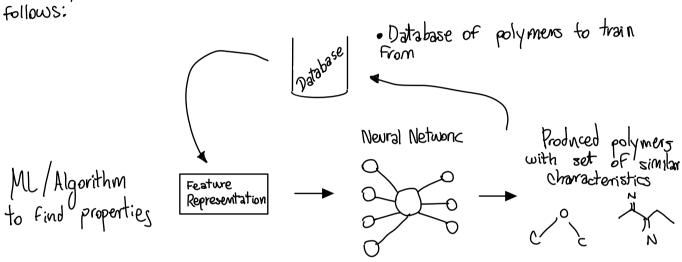
Architecture Proposal: So for this project and this plan for architecture proposal, I will try to draw a diagram over the small couple of things that compose the entire project, and then from there, I will determine my course of action during the weekend.

God: Build a ML anchitecture that will allow for the fraining of polymens for certain properties. The pipeline would look as follows:



Prepresentation of molecules

UI (Interface)

Things to find:

Problem: Databases are expensive and the ones

wailable might not have the properties we how to get data

how to get data

to train from?

Augmentation;

Augmentation;

What ML Alg to use?

Deep RL? MO? Trees?

Most likely something that has to do with Deep RL!

Which Feature Representation

1s the most Feasible? Using 3D-structures as described in the Geo Moz or Delp RL paper.

We know the properties of monomers? Maybe start with smaller steps. Focus properties of monomers? on a single kind of molecule (e.g. cellulose a certate).

What's the problem them?

It's hard to give a

what's the problem them? \Rightarrow It's hard to give a proper guess as to what's the step forward without ample knowledge of the literature betorehand. I must read more about the literature and focus on:

- · Performance
- · Computational Expense
- · How much data is available
- · How feasible it is (make sure it is not an absolutely crazy idea and that it can work under current circumstances)

tor Example;

Change representation

From (30 structure)

to cartesian bond angles

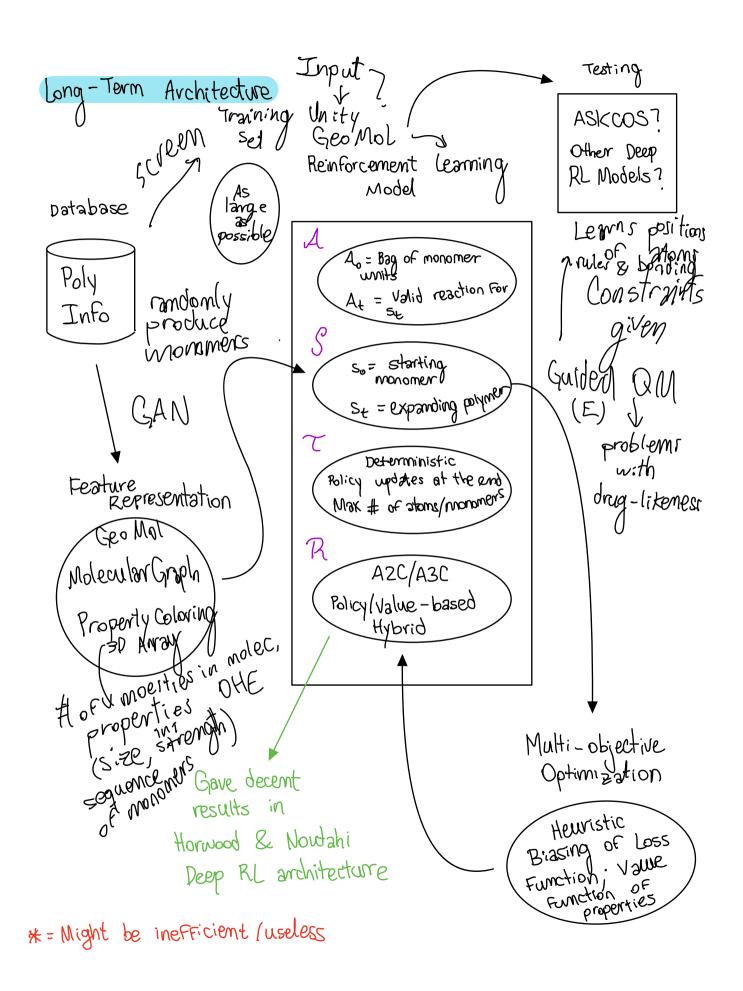
Imput any bond angles

(27.7.)

. Etc

Short-Term Architecture ako, Low Data





*Data Load Model => Poly Info Amil (not really to be trusted Poly Info (waiting to Obtain it)

It's on Github, it could be useful for a tox

Data Set.

Specific vs. General One Objective: Produce unolecules that resemble this dataset of well-known unolecules (the process works)

Objective: Generative model for polyments; optimizing for multiple objectives,