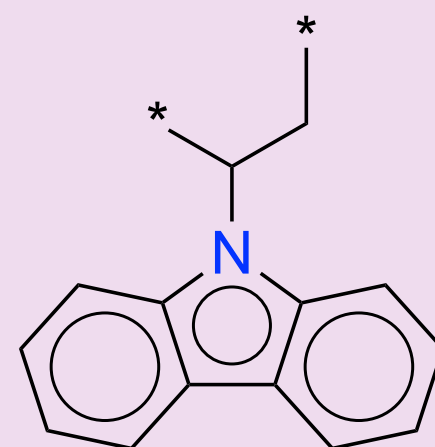
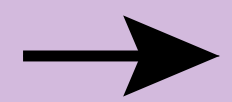
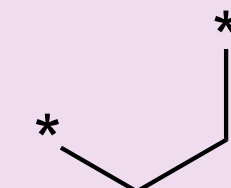


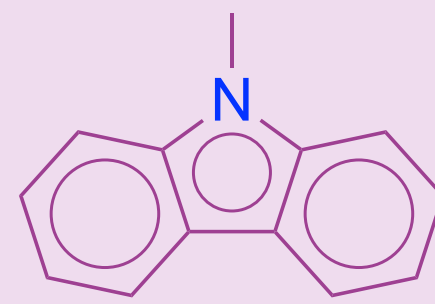
[*]CC(n(c1c2cccc1)c3c2cccc3)[*]
Poly(N-vinyl carbazole)



Polymer



Backbone



Sidechain

Chemical Featurizers

- Number of hydrogen bond acceptors
- Number of hydrogen bond donors
- Number of rotatable bonds
- Topological surface area

⋮

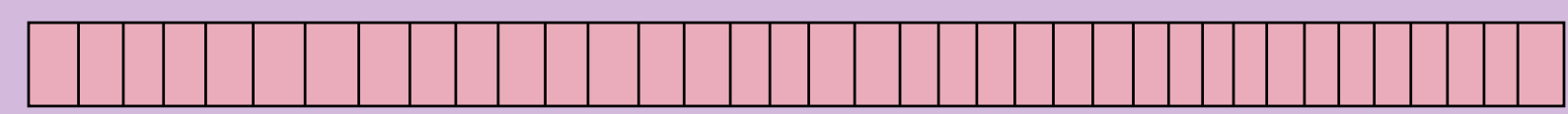
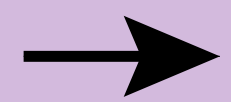
- Count rings

Topological Featurizers

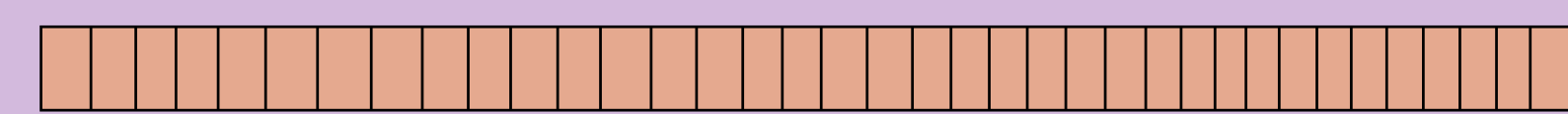
- Number of sidechains
- Number of backbones
- Length of sidechains
- Length of backbones

⋮

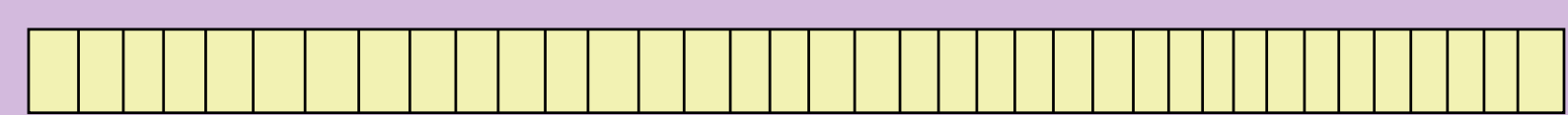
- Number of diverse sidechains



Polymer (Chemical + Topological) Vector



Backbone (Chemical) Vector



Sidechain (Chemical) Vector

PolyMetriX

Use these vectors for training ML models
for down stream tasks