Data in hard:

Smiles Représentation of the chinical Compounds. from Juic-15 dababase

Objective - Generate 3 new motecule. Hut - given - VAE

Step -1

Dasa Preprocessing

The Similer Rober had to be numerodly Represented. herce. character vous one not embos

For Simplicity only elements with 20 characters were chosen from fruets Database.

And 35 classes of characters (unique).

Converting them on the fly to one hot encooling using data generator.

Model:

Encoder. J. ou Role voor to generale a Radendwector & Dougth 256 10 convolution. was used on the Data. (New. Unfaged)

to variable there. Smile length)

was an letu wald.

& Reconstructing the one not encoded output

THE LOSS: Space Septimax cross entropy was used

Trained for 6 epoche gave an accuracy of

Et by. Collecting the mean. from encoded new lateral space was State Generaled and B. Decoded with Smilp chalacters.