Nano Name Generator - NNG
Overview:

NNG is a generative AI project that learns the statistical probabilities of next character given the first character.
NNG learns statistical probabilities from a input files with child names.
NNG uses multinomial sampling to generate first letter of new name and generates next characters based on probability it learnt from input child names
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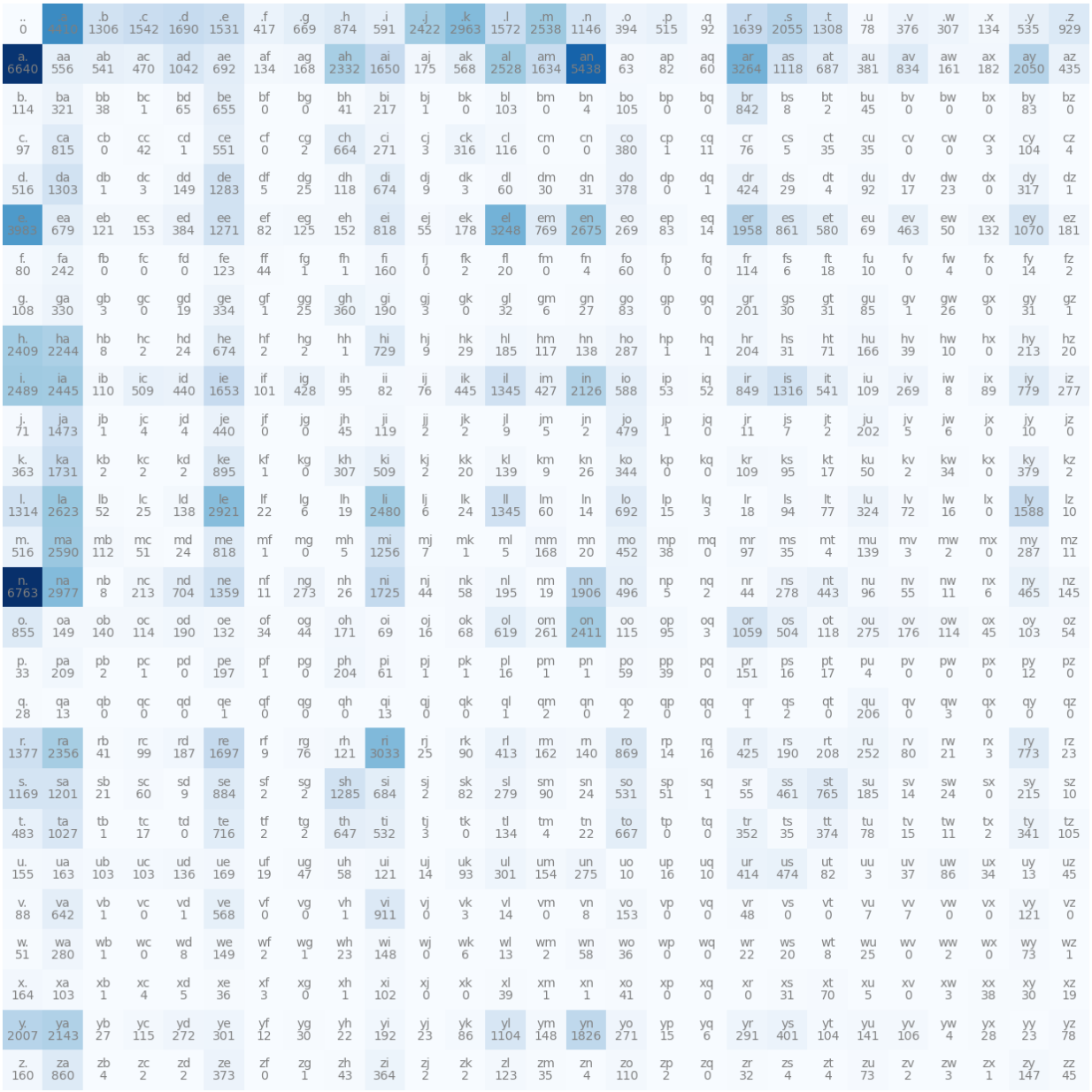
Input = Text file with child namas
Output = Generated names through bigram prediction
Output = Loss function or Maximum likelihood estimation

Number of names in the input file = 32033
First 5 names in the input file ['emma', 'olivia', 'ava', 'isabella', 'sophia']

Bigram table based on learning from input child names

Row = Input character
Column = Output character
Output value of array = Likelihood count - Not Normalized



OUTPUT

Create 20 new names based on bigram probabilites

junide.
janasah.
p.
cony.
a.
nn.
kohin.
tolian.

juee.
ksahnaauranilevias.
dedainrwieta.
ssonielylarte.
faveumerifontume.
phynslenaruani.
core.
yaenon.
ka.
jabdinerimikimaynin.
anaasn.
ssorionsush.

Loss function - Maximum likelihood estimation = 2.4544
