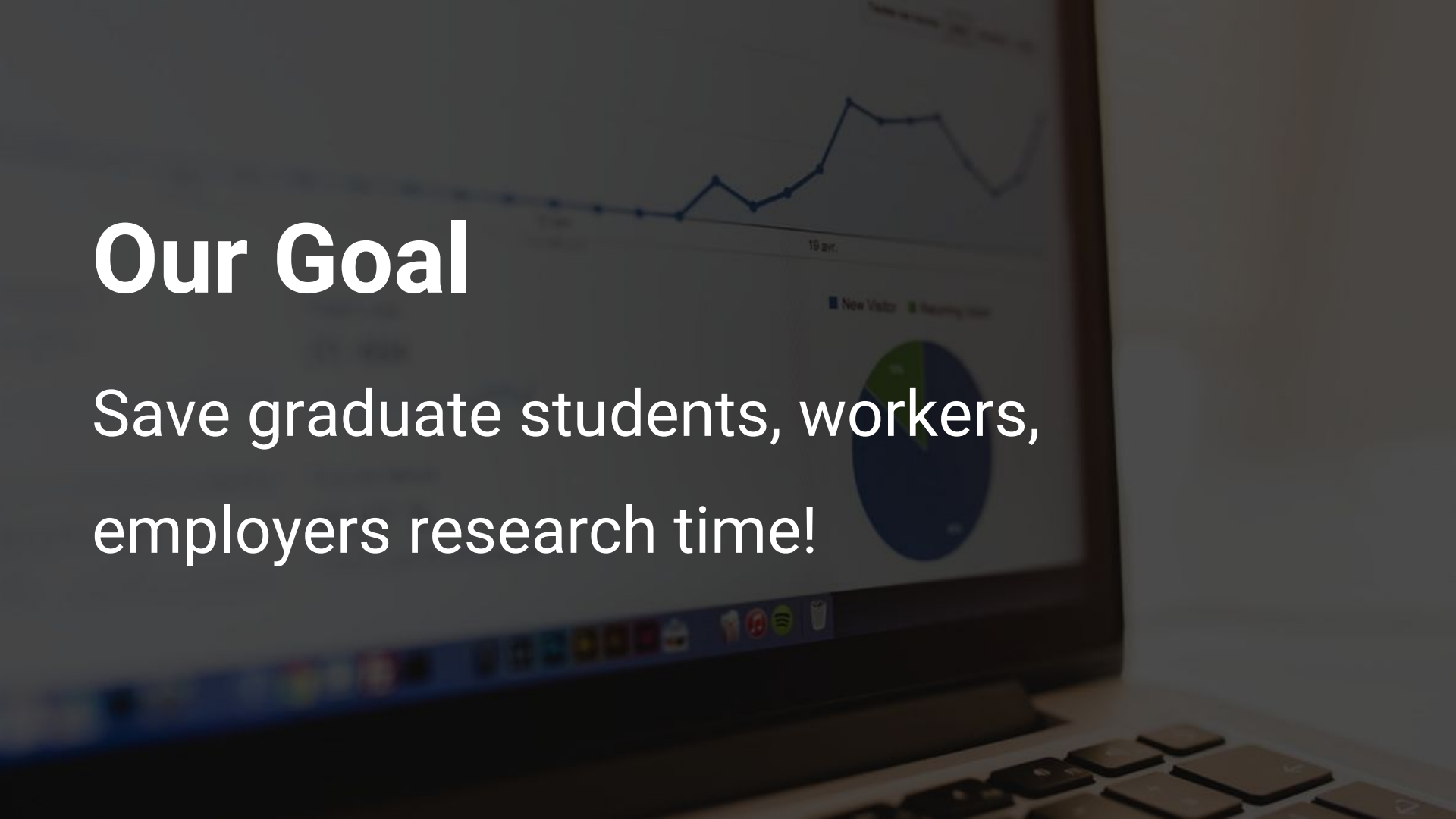




Sum it up!

# Our Goal

Save graduate students, workers,  
employers research time!



# Research takes 50% - 75% of our time!

Studies find that close to 75% of the time taken for producing something is spend on research!

Information in today's world is ever growing and we need a way to deal with this.





# Our Tool To **Summarize Text**

Our application will  
summarize any text you  
need in seconds!

# The Team

*Made by students for students and workers!*



**Telerik**

Chrome Extension and  
Model

**Martin**

Machine Learning Models  
and Algorithms

**Ivona**

Project Manager

**Vladi**

Machine Learning Models  
and Algorithms

**Pesho**

Chrome Extension and  
Model

# Milestones

A bit more left to tackle ; )

Research and choose the  
right machine learning  
models and algorithms

Training the model and  
tweaking the  
hyperparameters  
C



Implementing the models and  
finding suitable training data

# How our tool works

## Step 1

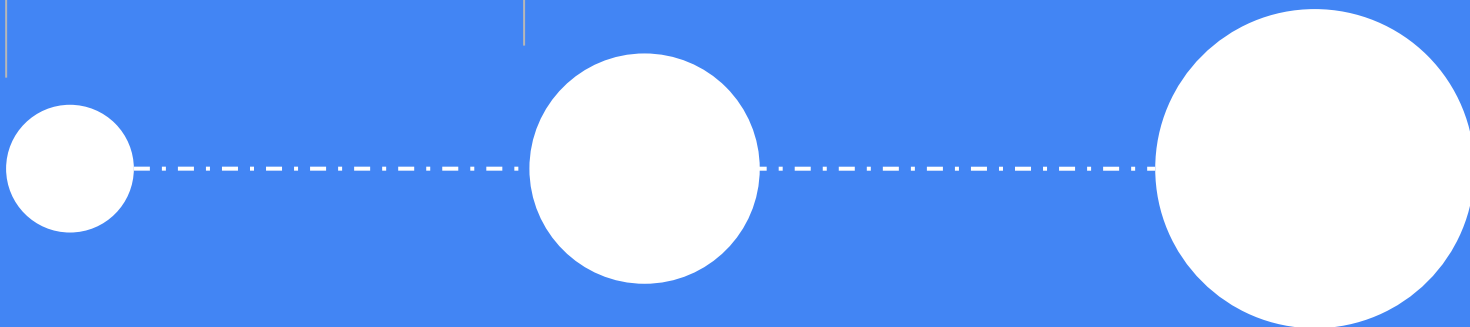
Extract text content  
from a web page

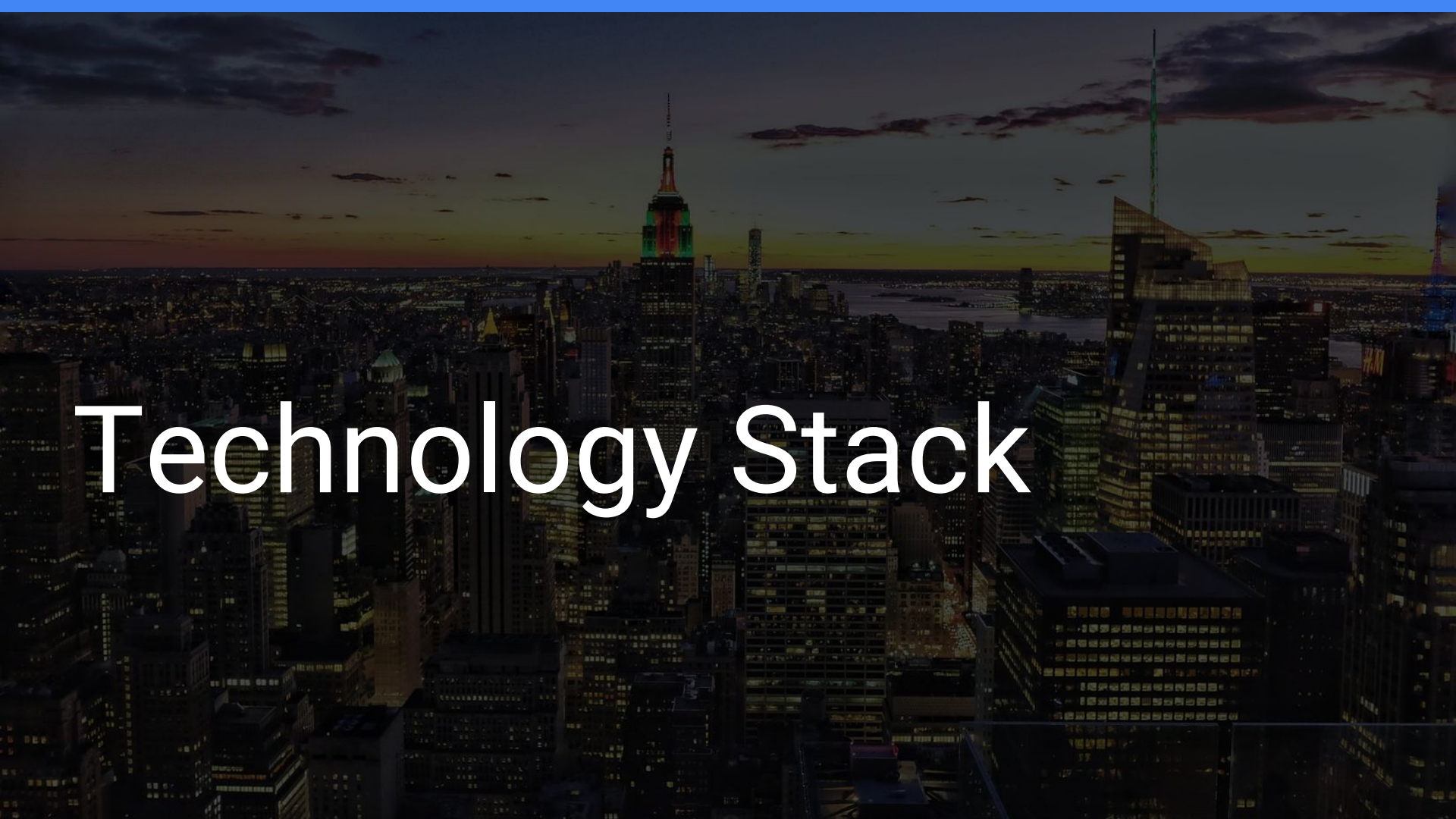
## Step 2

Convert the text to word  
embeddings vectors

## Step 3

Process the data through  
Seq2seq model using Encoder  
and Decoder network and  
feeding the model

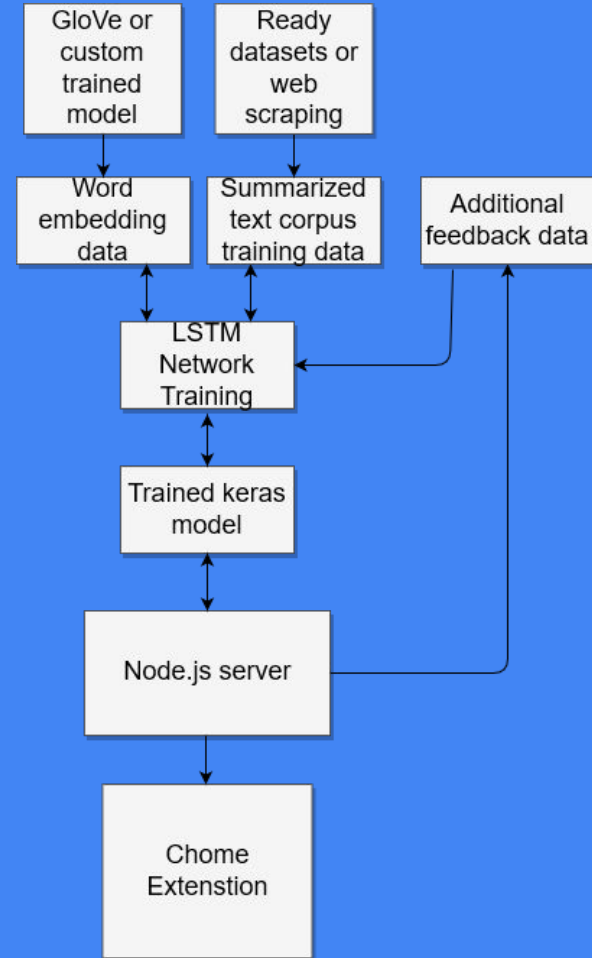




# Technology Stack

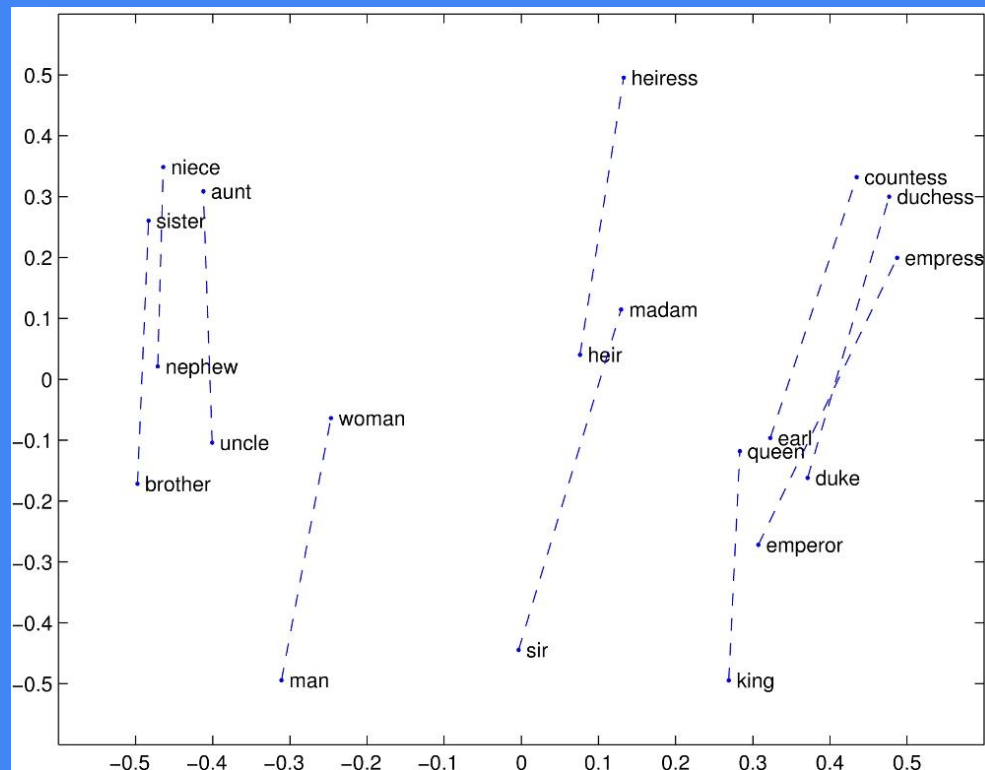


# Application structure



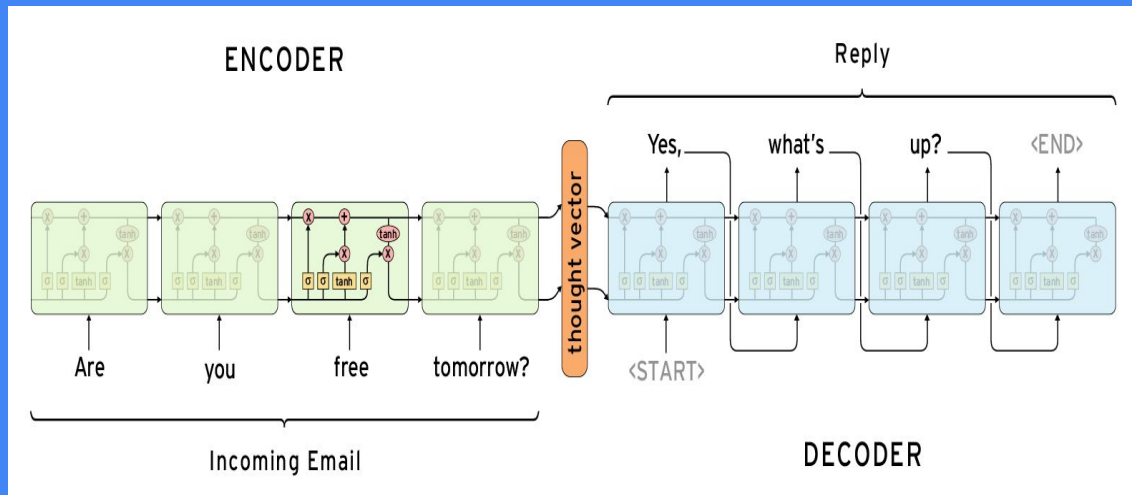
# Word embeddings

- What is GloVe?
- Why do we use it?
- The advantages



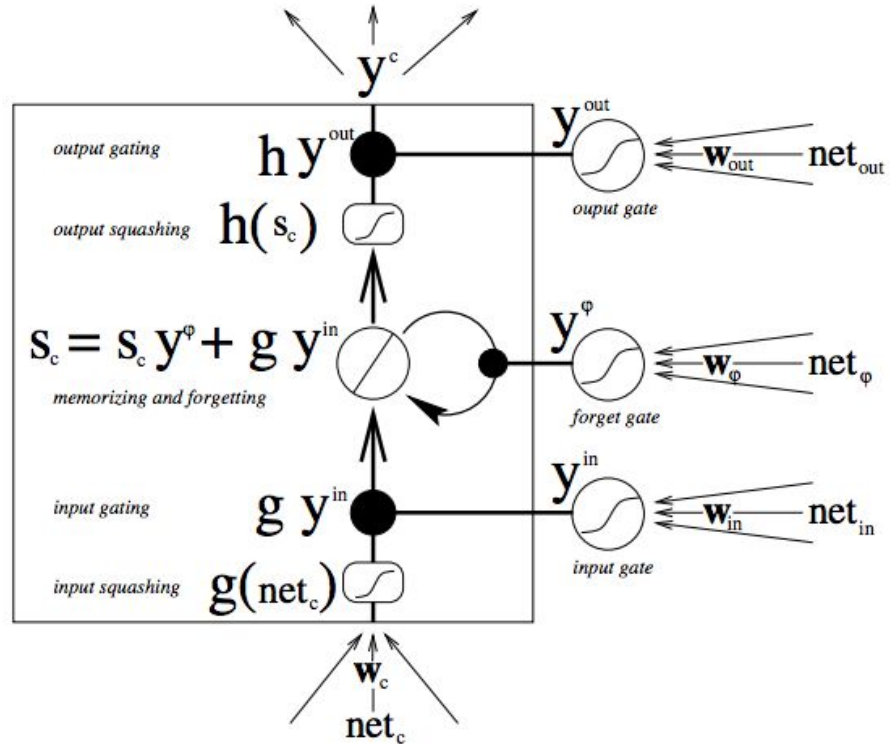
# Neural network model

- Seq2Seq
- Recurrent LSTMNN
- Attention based model
- Encoder-decoder
- How does it work?



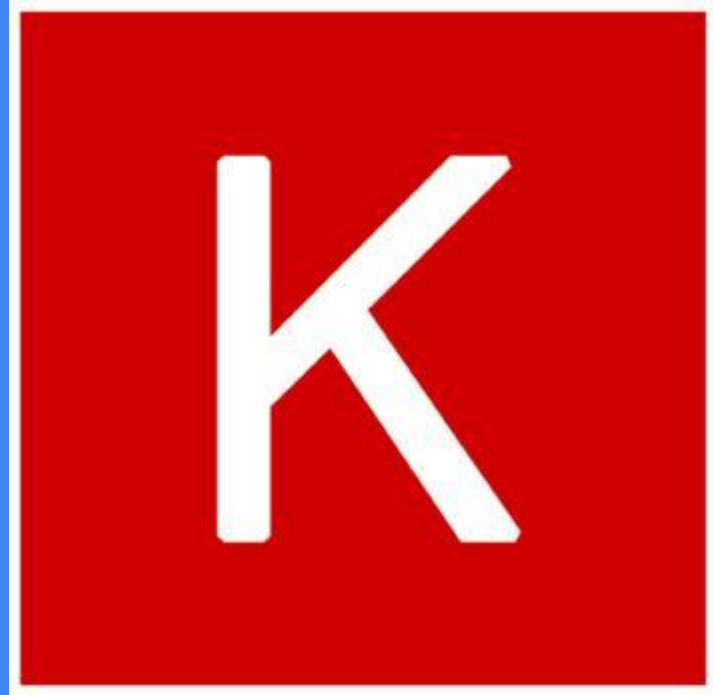
# LSTM Cell

- The main building block of the model
- Quite an old architecture

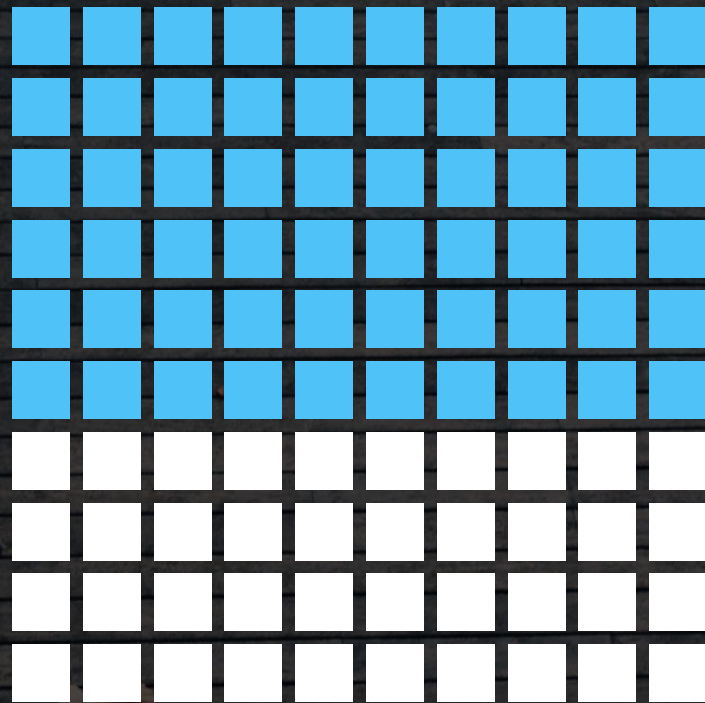


## Used technologies

- Keras
- Tensorflow
- Python
- NLTK
- Web scraping tools
- Node.js and chrome



# Demo



An aerial photograph of a city skyline at dusk or dawn. The sky is a mix of dark blue, purple, and orange. The city is densely packed with skyscrapers, many of which have their lights on. The Empire State Building is prominent in the center-left. The text "Thanks for your attention!" is overlaid in a large, white, sans-serif font.

Thanks for your  
attention!

Questions & discussion