

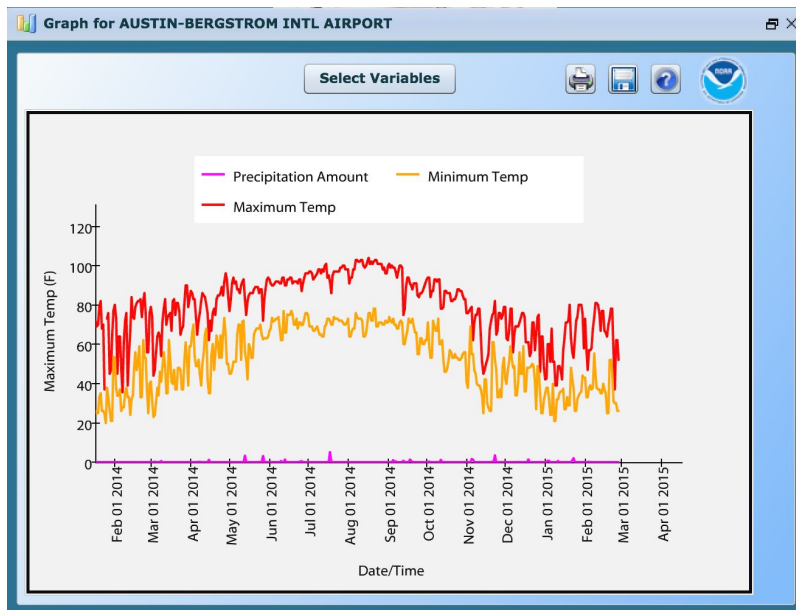


Anticipating future image from video stream

Project Progress
-Ahnaf Farhan

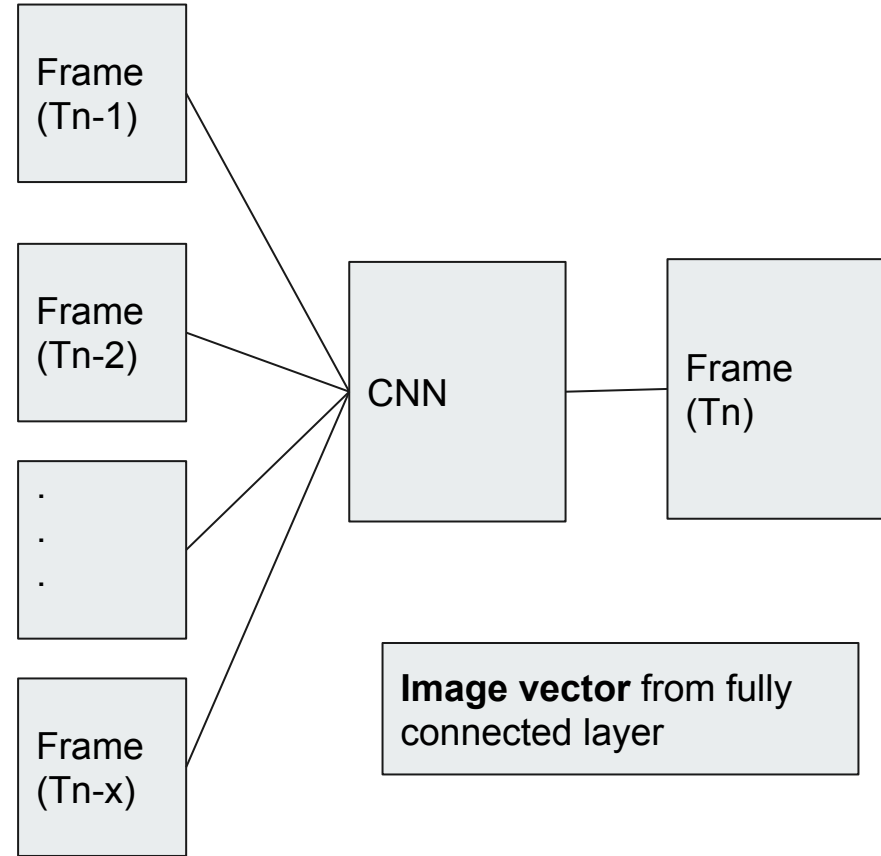
Problem

- Weather Prediction
 - Data of current and previous atmosphere
- What about visual prediction?
 - Video streams of constant location



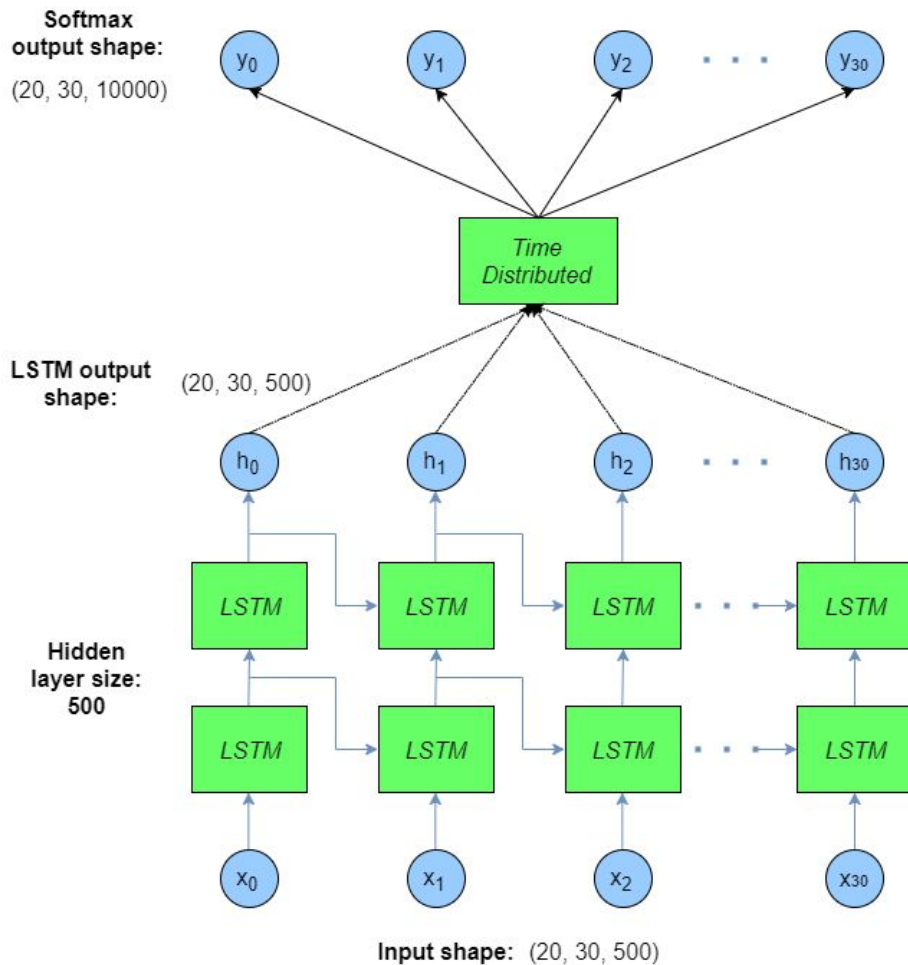
Proposed Methodology

- Generate **vector representation** of Image.
- Extract **visual semantics** from vector space representation of **Image**.
- Using **frames** from video stream of same place **anticipate future frame** attributes.



Current Methodology

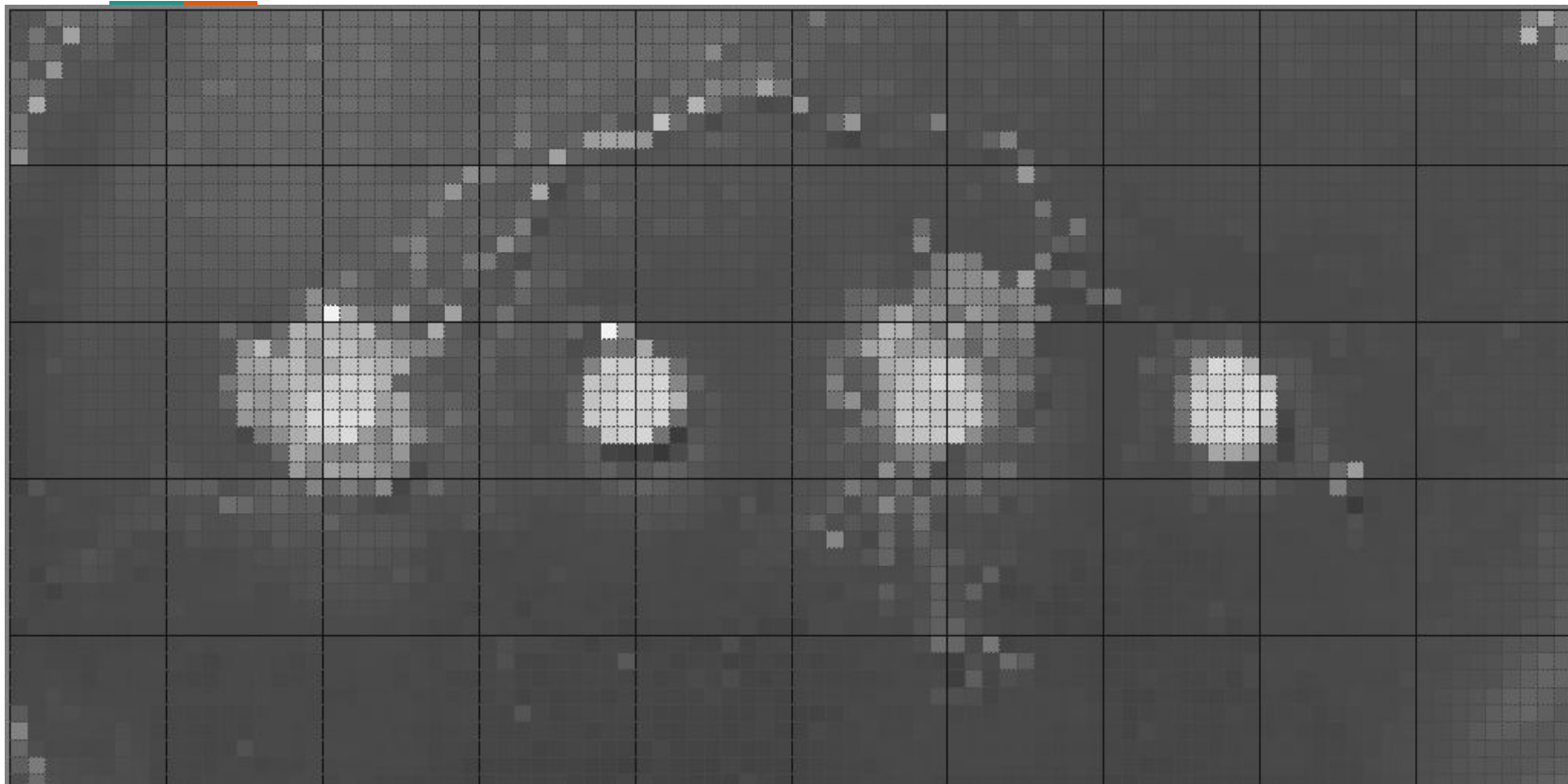
- LSTM - Recurrent Neural Network
 - Model time-sequence dependent behaviour
 - Feeding back the output of a neural network layer at time t to the input of the same layer at time $t+1$



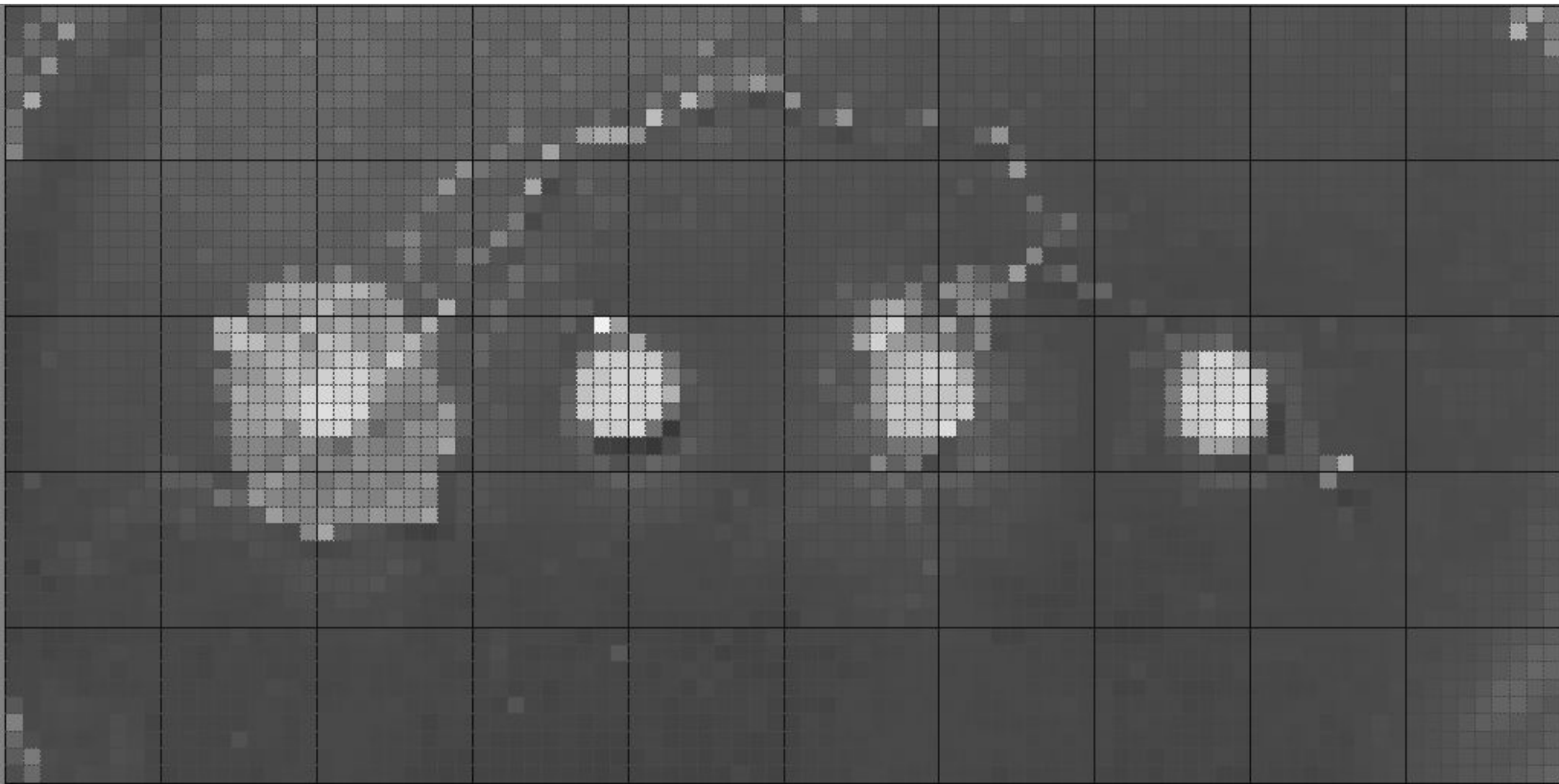
Data



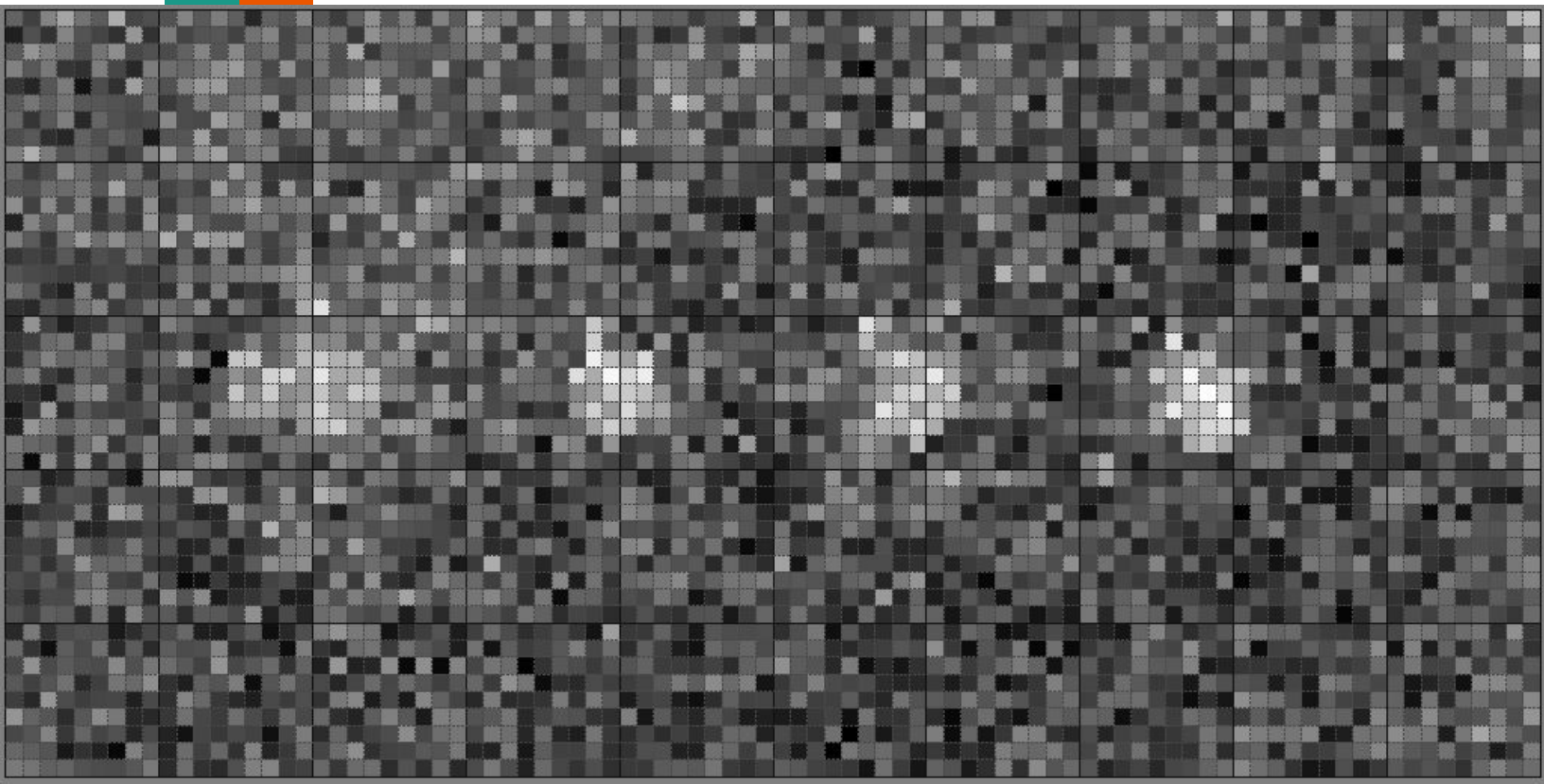
Input



Output Expected



Output Actual

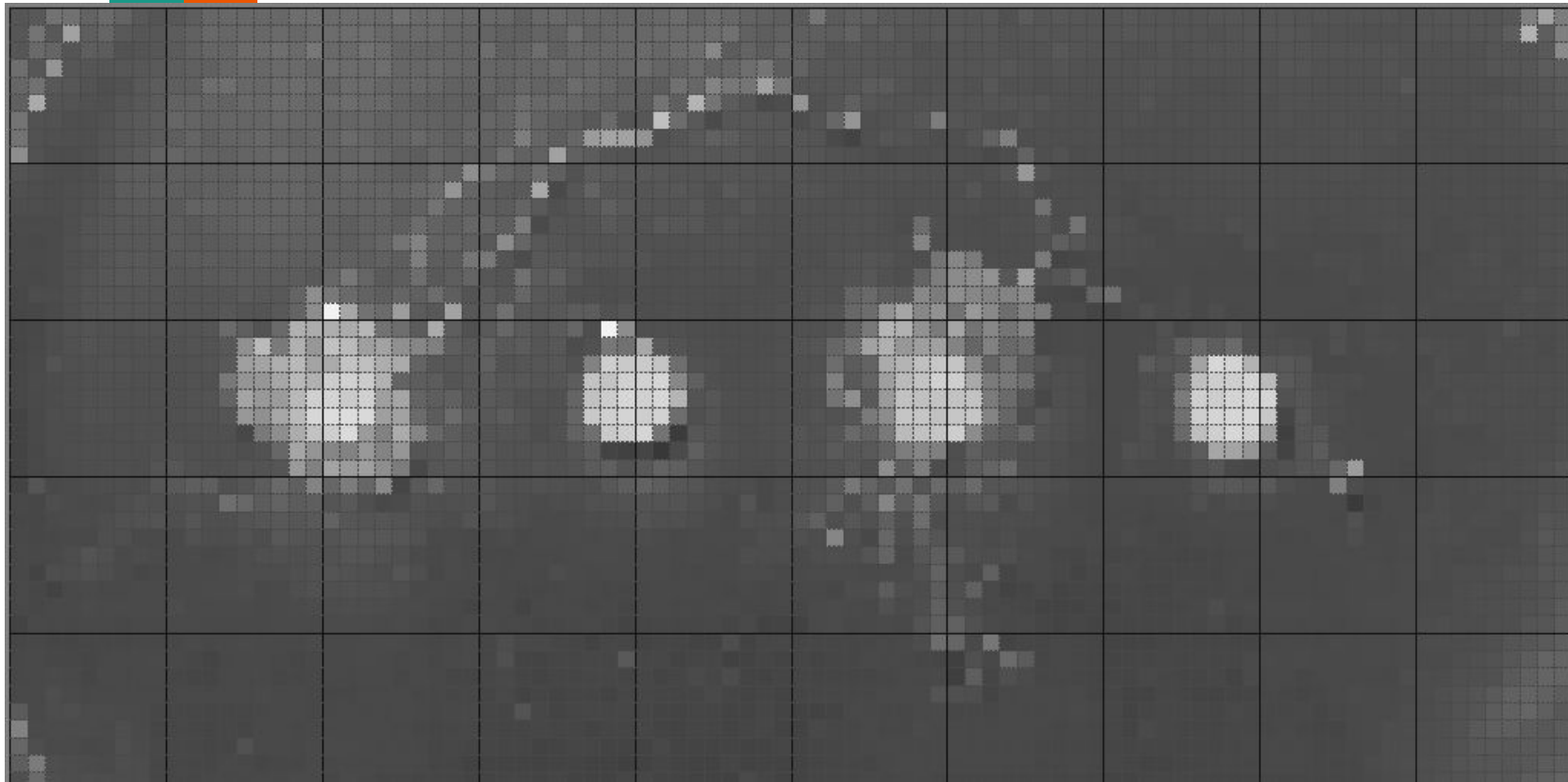


Analysis and Future Direction



- Problem:
 - Sampling and Normalizing the images
- Solution:
 - Do not train the whole image
 - Find region of interest
 - Train the region of interest separately

Find region of interest





Working Plan

Approval

28th
November

Implemented
LSTM

1 - 3rd
December

Evaluation

4th
December


Final
Presentation

5th
December



Thank You

Any Questions



A Visual Embedding for Extraction of Semantics from Image

Project Proposal
-Ahnaf Farhan