Visual Question Answering



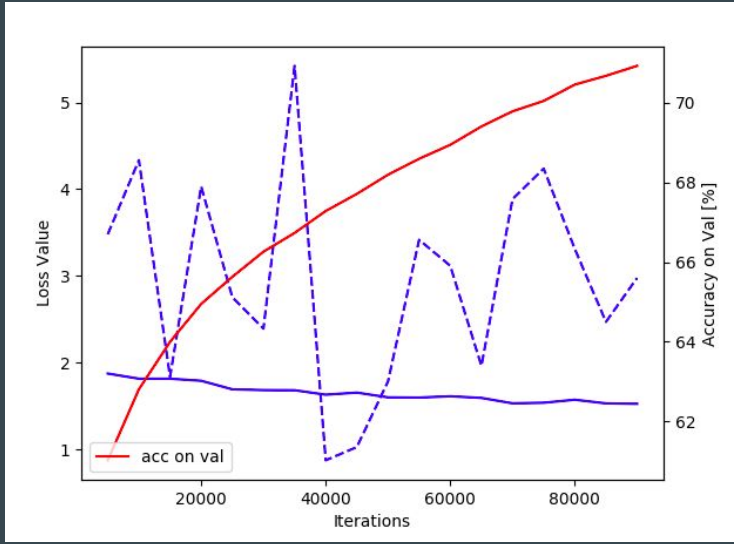
Gera Versfeld

Summary of results so far:

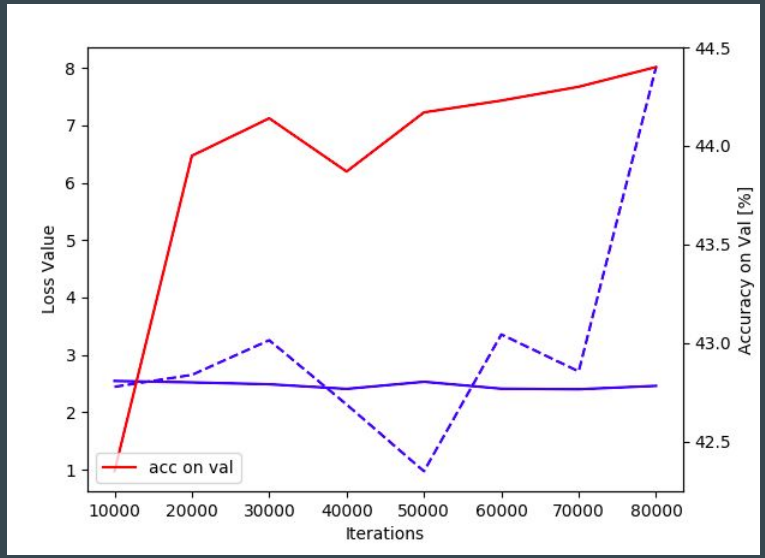
	Validation				Test-dev				Test-standard			
	Y/N	No.	Other	All	Y/N	No.	Other	All	Y/N	No.	Other	All
Pre-trained	73.01	43.77	61.62	63.56	69.19	36.55	53.20	57.90	–	–	–	–
Fine-tuned	78.61	46.43	64.75	67.55	72.20	36.35	53.85	59.42	–	–	–	–
POS	78.97	46.54	64.89	67.77	73.89	36.83	54.85	60.65	74.08	36.43	54.84	60.81
Ensemble	**79.93**	**47.09**	**65.63**	**68.57**	**74.43**	**37.25**	**55.27**	**61.11**	**–**	**–**	**–**	**–**

Ensemble Model Progress

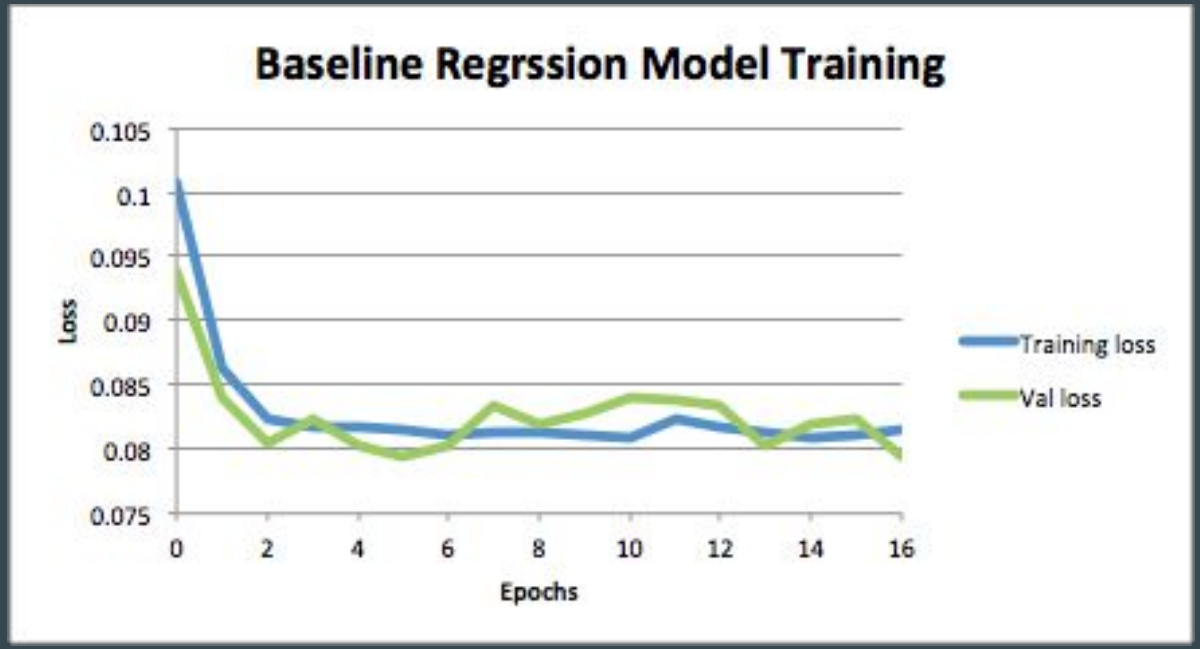
- Word2vec
  - Maximum validation acc: 70.92%
  - 60.41% acc on test-dev



- Inception V3
  - Maximum val acc: 44.43%



Regression baseline - preliminary training



Regression model with Attention Mechanism

- Soft attention mechanism from show attend and tell
- Considering using attention mechanism from hierarchical co-attention
- Ran into issues with implementation - fixing bugs in accuracy evaluation code

Goals for next week

- Fix bugs in regression with attention mechanism
- Continue training regression baseline model and begin training attention model