MAML evaluation

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To do (Next week)

- FCN fine-tuning: Batch normalization, different number of tasks.
- MAML evaluation.

Results MAML evaluation

	XGBOOST	GP	RESNET	VRADA-S	VRADA-C	LSTM	FCN	LSTM-MAML	FCN-MAML	LSTM-L	LSTM-MAML-L
POLLUTION	-	0.049127	0.050516	0.042286	0.041919	**0.040666**	0.051758	0.041287	0.048905	0.040772	0.040791
HR	-	0.118233	0.076403	0.082425	0.080642	0.078851	0.115783	0.085602	0.083335	0.085554	**0.073863**
BATTERY	-	0.203649	0.003109	0.003229	0.003146	0.001645	0.010029	0.001586	0.036938	**0.001341**	0.013857

Comments

- Fine-tuning the whole network did not achieve good results.
- Fine-tuning only the last layer with MAML gave better results.

To do (Next)

- Analysis of the learning speed (is it quickly learning)
- Are the fine-tuned parameters getting outdated?
- Meta-augmentation
- Meta-regularization
- Multimodal learning
- Different number of task size
- Analysis of FCN performance

Timeline

Time	Tasks
August	Literature review, data exploration
September	Baselines implementation
October	Proposed model implementation
November	Experiments on models (Hyper. Tun., etc.)
December	Results evaluation and adjustments
January	Results report and thesis finalization