Just-In-Time Software Defect Prediction Ali Mohamed, Yifei Gong, Yunhua Zhao

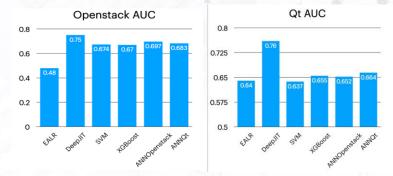
Project Category: binary classification for buggy commits

Data: two datasets:

- Openstack and Qt
- Openstack (10658 negative samples, 1616 positive samples),
 Qt (23148 negative samples, 2002 positive samples).
- Each sample contains information from a GitHub commit.
- Each sample has 35 features extracted from that commit (lines modified, developer experience, etc.) and 1 target values (buggy or not).

Goals: compete with state-of-the-art work by using handcrafted features

Hypothesis 1: two datasets may share intrinsic similarities that can render better results when trained together



EALR and DeepJIT are state-of-the-art work . The rest four models are trained on combined oversampled datasets. ANNOpenstack and ANNQt uses feed forward neural network.

- 4 models can outperform EALR
- Still a gap with DeepJIT

