

# MNIST-MAJ

# FashionMNIST-MAJ

Class

Digit 1

Digit 9

Digit 0

Sandal

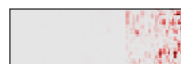
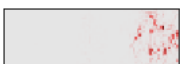
Sneaker

Sandal

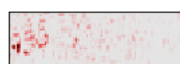


## Sensitivity Analysis

ConvDeep



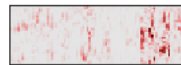
Conv<sup>+</sup>Deep



R-LSTM-SD



ConvR-LSTM-SD

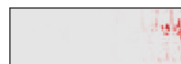
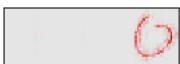


Conv<sup>+</sup>R-LSTM-SD

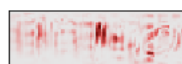


## Guided Backprop

ConvDeep



Conv<sup>+</sup>Deep



R-LSTM-SD



ConvR-LSTM-SD

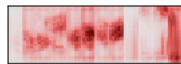
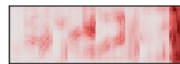
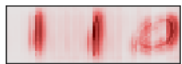


Conv<sup>+</sup>R-LSTM-SD

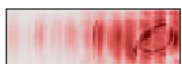


## Deep Taylor Decomposition

ConvDeep



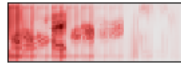
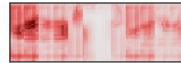
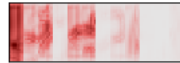
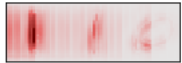
Conv<sup>+</sup>Deep



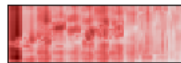
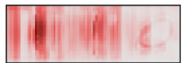
R-LSTM-SD



ConvR-LSTM-SD

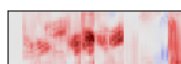
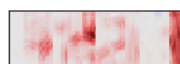
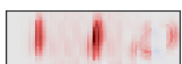


Conv<sup>+</sup>R-LSTM-SD

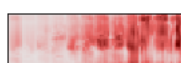
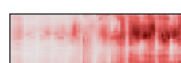
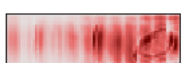


## LRP- $\alpha_{1.5}\beta_{0.5}$

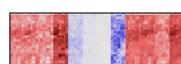
ConvDeep



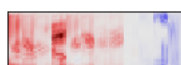
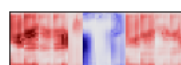
Conv<sup>+</sup>Deep



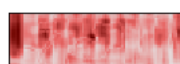
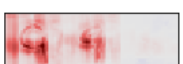
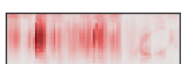
R-LSTM-SD



ConvR-LSTM-SD



Conv<sup>+</sup>R-LSTM-SD



$R_i \ll 0$

$R_i \gg 0$