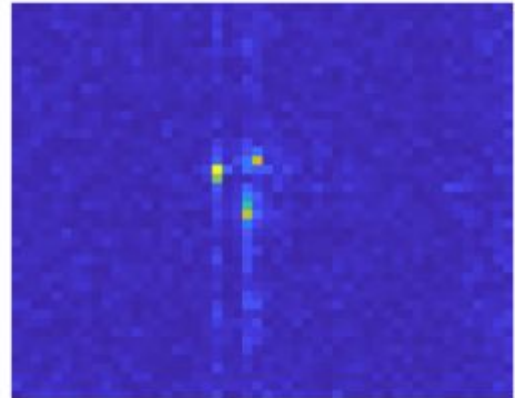
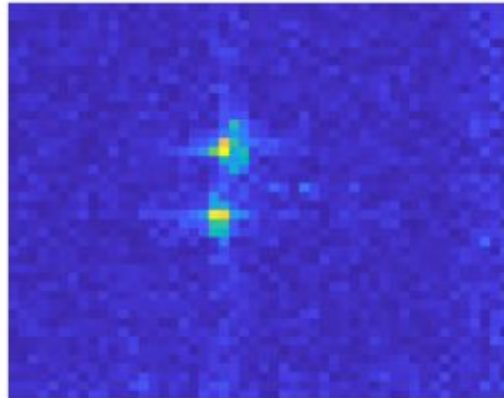
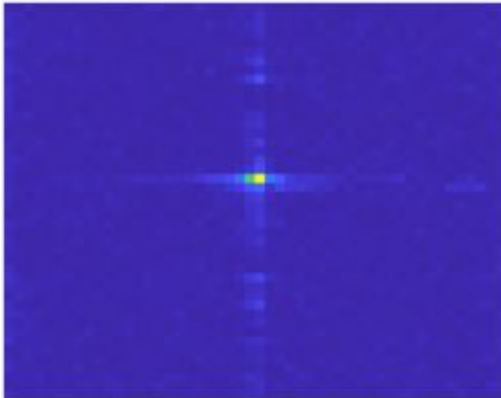


# Classification of room occupancy

Kristyna Pijackova

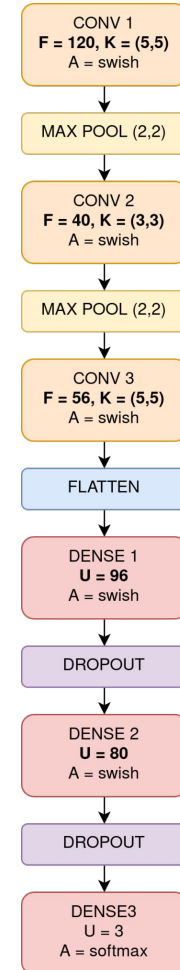


# Data Pre-processing

- Data cleaning - check for invalid values, replace it
- Dataset creation - store the corrected data in .npy
- Data normalization - get the max value from training set and divide the datasets
- Labels encoding
- Data splitting - 80:20% ratio for training and validation sets

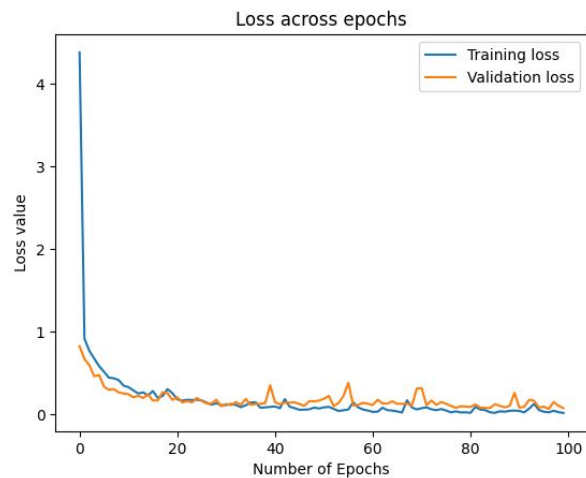
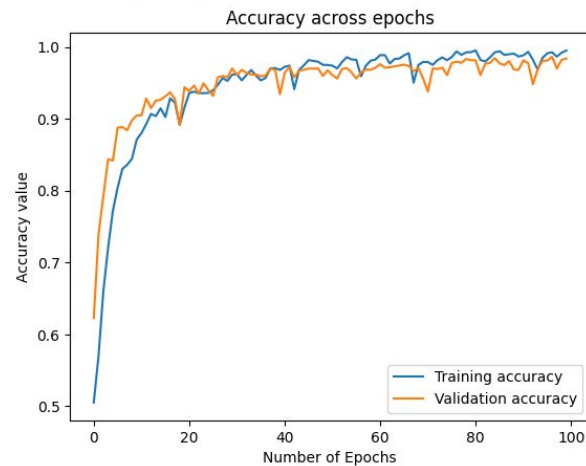
# Model Training

- Bayes Optimization for better results
- Convolutional Neural Network
  - 3 convolutional layers
  - 2 max pooling layers
  - 3 dense layers
  - Adam optimizer
  - 100 epochs

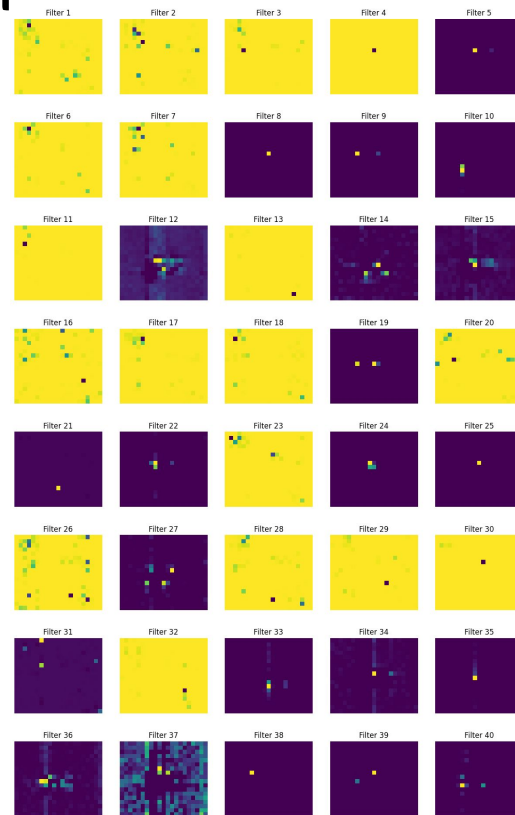
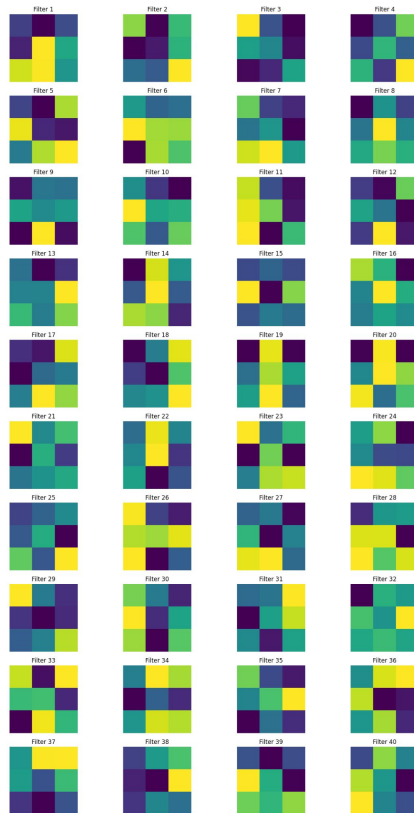
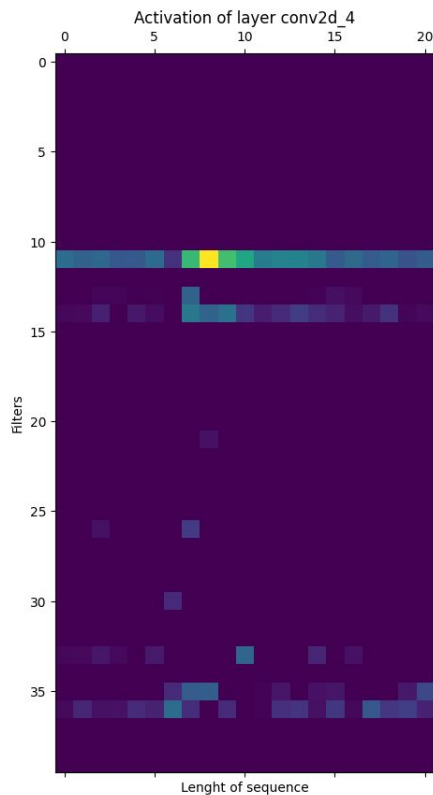


# Model Evaluation

- 98.369 % on validation set
- 98.309 % on test set



# Activations, Filters and Feature Maps...



Thank you for your attention!