

# APPENDIX F

*SOURCE CODE LISTING*

## INTRODUCTION

This appendix contains all source code that is used in the project. To avoid a very long appendix all source code and documents are available on Github:

[Link to all source code and models](#)

All

The directory hierarchy is as follows,

- Masters Project
  - Documentation
    - Portfolio
    - Portfolio\_Files
  - Matlab\_scripts
    - Traditional\_detection
    - Generate\_plots
    - generate\_datasets
  - Data\*
  - Plots (All plots generated used in portfolio)
    - Multipath
    - Flip\_bits
    - AWGN
  - Predictions
    - LSTM
      - Multipath
      - Flip\_bits
      - AWGN
    - RNN
      - Multipath
      - Flip\_bits
      - AWGN
    - BLSTM
      - Multipath
      - Flip\_bits
      - AWGN
  - Notebooks (All training and evaluation of models is here)

- LSTM
  - Multipath
  - Flip\_bits
  - AWGN
- RNN
  - Multipath
  - Flip\_bits
  - AWGN
- BLSTM
  - Multipath
  - Flip\_bits
  - AWGN
- Models (All models are here in H5 and json format)
  - LSTM
    - Multipath
    - Flip\_bits
    - AWGN
  - RNN
    - Multipath
    - Flip\_bits
    - AWGN
  - BLSTM
    - Multipath
    - Flip\_bits
    - AWGN

\* Unable to include data used in the project on github as it is company data.