

# 20 Real-Life RNN Projects (Beginner to Advanced)

This document contains a curated list of 20 real-life projects using Recurrent Neural Networks (RNN), LSTM, and GRU models. The projects are ordered from beginner to advanced level.

- 1 Sentiment Analysis (Product / Movie Reviews)
- 2 Spam Email Detection
- 3 SMS Emotion Detection
- 4 Next Word Prediction
- 5 Character-Level Text Generator
- 6 News Category Classification
- 7 Fake News Detection
- 8 Song Lyrics Generator
- 9 Chatbot using Seq2Seq
- 10 Named Entity Recognition (NER)
- 11 Part-of-Speech Tagging
- 12 Speech Emotion Recognition
- 13 Machine Translation (English → Hindi)
- 14 Music Generation (MIDI)
- 15 Stock Market Trend Prediction
- 16 Anomaly Detection using LSTM Autoencoder
- 17 Video Caption Generator (CNN + RNN)
- 18 Speech-to-Text System
- 19 Sequential Recommendation System
- 20 Lyrics Style Transfer using Seq2Seq + Attention

By completing these projects, you will gain strong practical understanding of: RNN, LSTM, GRU, Bidirectional RNN, Seq2Seq, Attention, NLP, and Time-Series modeling.