

SMS Spam Detection
ECS 171 Group 7
Project Roadmap

Week 3 4/16 - 4/22	Introduction to Project <ul style="list-style-type: none">• Project One Pager
Week 4 4/23 - 4/29	Research on Topic <ul style="list-style-type: none">• Literature Review (Learn NLP techniques)
Week 5 4/30 - 5/6	Exploratory Data Analysis / Data Exploration <ul style="list-style-type: none">• df.head(), df.describe(), value counts• Word cloud Preprocessing – NLTK Library for text analysis <ul style="list-style-type: none">• Clean the data (remove NA values if applicable)• Convert all text into lower case• Remove stopwords and punctuation• Stemming/Tokenization• Split data into training and testing data
Week 6 5/7 - 5/13	Modeling (1) <ul style="list-style-type: none">• Create the first model → Logistic Regression• Test the parameters and finalize Modeling (2) <ul style="list-style-type: none">• Create the second model → Naive Bayes
Week 7 5/14 - 5/20	Modeling (2) <ul style="list-style-type: none">• Finalize Naive Bayes Model Modeling (3) <ul style="list-style-type: none">• Create the third model → Random Forest• Finalize the third model
Week 8 5/21 - 5/27	Results <ul style="list-style-type: none">• Evaluate results Presentation <ul style="list-style-type: none">• GUI• Report
Week 9 5/28 - 6/3	Presentation
Week 10 6/4 - 6/10	Finalize Project <ul style="list-style-type: none">• Wrap up submission files