

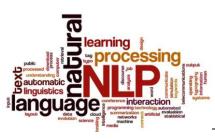
COEN 4890/EECE 5890 Fall 2024

Developments in Computing:
Applications of Natural Language Processing and Language
Modeling

Electrical and Computer Engineering









Some images are taken from public domain

- Define NLP application scenarios according to their industrial, analytic, and business functions
- Identify appropriate solutions based on NLP case studies
- Recognize how industry developers format NLP code
- Applicable to Systems Engineering Certificate
- Applicable to Machine Learning Certificate
- COEN Majors, course counts as a depth-only elective in Intelligent Systems
- ELEN Majors, course counts as a depth-only elective in Computer HW/SW
- Student Feedback
 - -Very flexible course!
 - -Can learn how to apply NLP and LM for industry use!
 - -Walkthrough, and explanation for all coding!



Dr. Priya Deshpande, EECE, Marquette University.









COURSE FORMAT

- Asynchronous Online Course Material
- Active Discussion (Olin 522 and Q&A Forums in D2L Led by Instructor
- Hands-on Coding Lab and Projects with Real Industry Data

PROJECT EXAMPLES

- Predictive Analysis
 - ▲ Breast Cancer Detection and Prediction
- Twitter Analysis
 - ▲ Sentimental analysis of twitter posts
- Clinical Reports Analysis
 - ▲ Data cleaning and quality analysis

Or Propose Your Own Topic