



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Natural Language Processing
Course Number: AIN213

Required Materials

Textbook(s): None
Required Readings: None
Additional Materials: None

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
Week 1	Topic: AI for Natural Language Processing <ul style="list-style-type: none"> • Week 1 Assignment, Week 1 Quiz
Week 2	Topic: Data Acquisition and Storage <ul style="list-style-type: none"> • Week 2 Assignment, Week 2 Quiz
Week 3	Topic: Data Curation <ul style="list-style-type: none"> • Week 3 Assignment, Week 3 Quiz
Week 4	Topic: Data Visualization <ul style="list-style-type: none"> • Week 4 Assignment, Week 4 Quiz
Week 5	Topic: Data Preprocessing Part 1 <ul style="list-style-type: none"> • Week 5 Assignment, Week 5 Quiz
Week 6	Topic: Data Preprocessing Part 2 <ul style="list-style-type: none"> • Week 6 Assignment, Week 6 Quiz
Week 7	Topic: Data Pipeline <ul style="list-style-type: none"> • Week 7 Assignment, Week 7 Quiz
Week 8	Topic: Intro to Machine Learning Models <ul style="list-style-type: none"> • Week 8 Assignment, Week 8 Quiz
Week 9	Topic: Neural Language Models <ul style="list-style-type: none"> • Midterm, Neural Language Models Discussion Forum
Week 10	Topic: Model Deployment <ul style="list-style-type: none"> • Week 10 Assignment, Week 10 Quiz

Week	Chapter/Topic/Lab
Week 11	Topic: Building a Chatbot 1 <ul style="list-style-type: none">• Week 11 Assignment, Week 11 Quiz
Week 12	Topic: Building a Chatbot 2 <ul style="list-style-type: none">• Week 12 Assignment, Week 12 Quiz
Week 13	Topic: NLP for Multiple Languages <ul style="list-style-type: none">• Week 12 Assignment, Week 13 Quiz
Week 14	Topic: LSTM and Transformers <ul style="list-style-type: none">• Week 13 Assignment, Week 14 Quiz
Week 15	Topic: Advanced NLP Models <ul style="list-style-type: none">• Week 15 Assignment, Week 15 Quiz
Week 16	Final Exam