

University of North Texas
Department of Computer Science and Engineering

CSCE 5934 – Directed Study

Session: Summer/2026

Class:

CSCE 5934-833, Summer/2026, **May 18, 2026-Jul 24, 2026**

Students:

- 1- Peta, Kiranmai- 11798541
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Instructor:

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Description (From the catalog)

Study of topics in computer science and engineering by individuals or small groups. A student taking CSCE 4890 or **CSCE 5934** may work with other students taking these courses on the same topic if the faculty supervisor agrees. The student is to prepare a plan for study of a topic and a plan for evaluation of study achievements. Prior approval by the computer science and engineering department chair and a graduate faculty member who agrees to supervise the work is required for the plan.

Prerequisites: 6 hours of computer science and engineering with a grade of A or B.

Description (Specific for this class)

The student is required to do Directed Study Focused on “AI-Based Emotion Detection from Text Using Natural Language Processing.”. This research focuses on developing an NLP-based model to analyze textual data and classify human emotions such as happiness, sadness, anger, and stress. The primary objective is to support early mental health monitoring by identifying emotional patterns over time. Student also plans to implement and evaluate multiple machine learning models to determine the most effective approach based on performance metrics.

Materials

There is no specific textbooks or references for this class. The students are required to search for the reading list of related articles with help of the instructor.

Communication Format

The student can meet the instructor weekly, online Via Teams/Zoom meetings. **There is 10% of student participation/attendance in this class.**

Course Requirements, Term Work and Evaluation

The following is a tentative milestone of the course requirements (topics/work) which students must follow/complete with the evaluation weights and due dates.

<u>Weeks</u>	<u>Topics/Work</u>	<u>Weight</u>	<u>Due dates</u>
May 18 – May 29	Studying the <u>research methodology</u>	20%	<u>05/29/2026</u>
June 01 – June <u>12</u>	Creating the related bibliography (<u>literature Review</u>)	25%	<u>06/12/2026</u>
June 15 – June <u>26</u>	Creating the <u>paper structure</u> and writing the initial paper	15%	<u>06/26/2026</u>
June 29 – July 17	Writing the <u>final course report and paper</u>	30%	<u>07/17/2026</u>

Grading policy

The letter grade will be assigned based on the following scale:

<u>Grade</u>	<u>5934</u>
A	90 and Above
B	[80-90)
C	[70-80)
D	[60-70)
F	Below 60

Policy on Academic Integrity

Students are expected to read and understand the university integrity policy. Members of UNT are expected to be honest and forthright in their academic endeavors. Students who violate this policy will be required to meet with the faculty member and/or will be referred to the Office of the Provost.

Other Policies:

Students should refer to any other polices from university, college and department.