

INFO 5506
**Applications of Artificial Intelligence in
Health**

Section: 020

SYLLABUS

Spring 2024

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COURSE INFORMATION

- INFO 5506, Sections 020, 3 Credit Hours
- Title: Applications of Artificial Intelligence in Health
- **Meeting Dates (Face-to-face):** See Table 2
- Meeting Time: **Monday 2:30PM - 5:20PM**
- Room: **NTDP D215**

Instructor Contact Information

- **Haihua Chen**, Assistant Professor in Data Science, Department of Information Science, College of Information, University of North Texas.
- Office: DP E298A, Discovery Park
- Office Hours: 9:00 am – 4:00 pm, Monday and Wednesday; Other time by appointment
- Zoom Meeting ID: 247 728 2245 (By appointment)
- Phone: (940) 268-8589
- Email address: haihua.chen@unt.edu

Teaching Assistant and Tutor

- Lavanya Pobbathi, Master student in Data Science, Department of Information Science, University of North Texas, email: LavanyaPobbathi@my.unt.edu
- Aisa Sakata, Master student in Information Science, Department of Information Science, University of North Texas, email: AisaSakata@my.unt.edu

Communicating with Your Instructor

This course will have a website in UNT Canvas (<https://unt.instructure.com/login/canvas>) for online discussion, assignment submissions, and sharing of reading materials. Students are welcome to make an appointment with the instructor and/or the teaching assistant (TA) to discuss course-related questions. If you need to schedule an individual online meeting with the instructor or the TA, please send her/him an email via the course website in Canvas Course Messages to make an appointment.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

- Pre-requisite: Basic knowledge of data mining and machine learning, or consent of instructor

Course Format

INFO 5506, Sections 020 hold face-to-face lectures by the instructor. The course uses Canvas, UNT's new learning management system. ALL course materials will be available at the course site on Canvas that is accessible to all students. And students will submit all assignments through the tools available on Canvas.

Course Description

This course covers the basic concepts related to artificial intelligence (AI) in health and the state-of-the-art applications of AI in health. The course will introduce various digital collections (such as electronic health record (EHR), medical image, medical device records, scientific literature, social media texts) and the core technologies (such as machine learning, natural language processing, data mining, computer vision, pattern recognition) that have been applied to health. Applications of AI in health, including precision medicine, drug discovery, drug delivery, smart diagnostics, medical imaging processing, remote patient monitoring, AI-assisted surgery will be presented. Issues related to security and privacy considerations in AI for health as well as ethical and biases will be discussed. Future directions will be presented. We will host in-class discussions and min-project for each week. The students are allowed to work on project related to different diseases and conditions.

Course Goals, Learning Objectives

- Define the basic concepts in health and artificial intelligence.
- Process large-scale digital collections in health with AI techniques.
- Implement simple tasks of AI in health with data mining, machine learning, natural language processing, computer vision, pattern recognition, or other AI technologies.
- Demo of AI in different fields and applications.
- Identify challenges/issues related to AI in health.
- Write a technical report for AI application development in health.

Materials

Textbook information (required):

1. Bohr A. & Memarzadeh K. (2020). *Artificial intelligence in healthcare*. Academic Press an imprint of Elsevier. Retrieved September 24 2023 from <https://www.sciencedirect.com/science/book/9780128184387>.
Note: Free download from UNT library (need to login unt account)
2. Monlezun D. (2023). *The Thinking Healthcare System: Artificial Intelligence and Human Equity*. Academic Press an imprint of Elsevier. Retrieved September 24 2023 from <https://shop.elsevier.com/books/the-thinking-healthcare-system/monlezun/978-0-443-18906-7>
3. Lecture notes, demos, a list of relevant articles, and other useful materials will be uploaded to Canvas (course files).

Optional textbook:

4. Krittanawong C. (2024). *Artificial Intelligence in Clinical Practice: How AI Technologies Impact Medical Research and Clinics*. Retrieved December 14 2023 from <https://www.sciencedirect.com/book/9780443156885/artificial-intelligence-in-clinical-practice>

Teaching Philosophy

The instructor will take a problem-solving approach and work together with students to understand Artificial Intelligence for Health. We will learn how to solve practical data collecting, data analysis, information extraction, information retrieval, and text mining problems related to health. He will monitor the progress of students and is open to suggestions from students. Students are expected

to study 12-15 hours per week, and to submit their assignments on time to achieve satisfactory class performance. Interaction between the student and the instructor/TA is guaranteed and strongly encouraged. Students who don't have knowledge and experience in data mining and machine learning are expected to spend extra hours on this course.

TECHNICAL REQUIREMENTS/ASSISTANCE

UIT Help Desk: <http://www.unt.edu/helpdesk/index.htm>

The University of North Texas provides student technical support in the use of Canvas and supported resources. The student help desk may be reached at:

Email: helpdesk@unt.edu

Phone: 940.565-2324

In-Person: Sage Hall, Room 330

Hours are:

- Monday-Thursday 8am-midnight
- Friday 8am-8pm
- Saturday 9am-5p
- Sunday 8am-midnight
- Canvas technical requirements: <https://clear.unt.edu/supported-technologies/canvas/requirements>
- Other related hardware or software necessary for the course: such as headset/microphone for synchronous chats, word processor, etc.

Minimum Technical Skills Needed

Using the Internet and the learning management system Canvas, using email with attachments, creating and submitting files in commonly used word processing program formats, downloading and installing software, using python programs.

Student Academic Support Services

- [Code of Student Conduct](#): provides Code of Student Conduct along with other useful links
- [Office of Disability Access](#): exists to prevent discrimination based on disability and to help students reach a higher level of independence
- [Counseling and Testing Services](#): provides counseling services to the UNT community, as well as testing services; such as admissions testing, computer-based testing, career testing, and other tests
- [UNT Libraries](#)
- [UNT Learning Center](#): provides a variety of services, including tutoring, to enhance the student academic experience
- [UNT Writing Center](#): offers free writing tutoring to all UNT students, undergraduate, and graduate, including online tutoring
- [Succeed at UNT](#): information regarding how to be a successful student at UNT

ASSESSMENT & GRADING

Assessments

A student's grade is composed of the following:

- Attendance (required)
- Assignments (30%)
- Quizzes (20%)
- Paper Review, Oral Presentation, Useful Tools (20%)
- Term Project (30%)
- Extra Credits (5%)

Grading

Class Attendance and Participation. Students are required to attend each class meeting (students will be assigned to a **fixed seat** during the first class meeting). Prior to the meeting, please preview the readings for the class and prepare your questions for discussion. You will miss **Quizzes, Oral Presentation, and other activities** if you do not attend the class. Students who absent for **three or more class meeting** will receive an **F**.

Assignments (30%). The class will have **FOUR assignments**. The assignments are designed to help students understand important concepts and gain hands-on experience in programming, data processing, and problem-solving. A list datasets publicly available will be provided. Assignments should be typewritten, and diagrams should be drawn using graphics software packages such as PowerPoints and Excel, code should be written on Google Colab.

In-class Quizzes (20%). There will be **FIVE in-class quizzes**. The quiz is designed to test students' understanding on the basic concepts related to artificial intelligence (AI) in health. Each quiz will contain 20 multiple-choice questions, which are originally from the two required textbooks. All the quizzes will be finished during the class meeting in 20 minutes. Quizzes will be offered and submitted on papers instead of online to prevent plagiarism.

Paper Review or Useful Tools and Oral Presentation (20%). There will be **FIVE reviews**. The reviews and oral presentation are designed to give the students experience following the trends in AI and its relationship to health. For the paper reviews and oral presentations, we will have a list of papers related to the topic of each lecture, and the students will submit a two-page reading notes (20 points) before the due dates at 11:59 pm of the week, as indicated in Table 2 (Study Schedule and Due Dates) of this course syllabus and create a slide presentation to present the paper during the class meeting as scheduled or record the presentation (20 points). The presentation schedule will be decided during the first-class meeting.

Instead of reading papers, students can also choose to create a brief tutorial of minimum of two pages (20 points) and create a slide presentation to give an oral presentation to demonstrate useful tools (20 points) related to artificial intelligence (AI) in health during the class meeting or record the presentation.

Term Project (30%). (Report One 5%; Attend Project Discussion 5%; Final Report and the System/programs: 15%; Presentation and evaluation 5%). The purpose of the term project is to apply what has been taught in this course to process real-world healthcare data. Students will work in teams

(no more than 5 people) to tackle one particular problem assigned or approved by the instructor in Natural Language Processing, Computer Vision, Machine Learning, Data Mining, or other topics related to AI in Health. Term project topics and their specifications will be distributed and discussed in class.

Extra Credits (50 points). Attending health informatics lecture series or other research meeting in health informatics (up to 50 points in total, 10 each). For attending the health informatics lecture series or other research meeting in health informatics, students need to upload as least two pictures (if in-person)/screenshots (if online) and a short paragraph with at least 100 words to summarize what you learned from the meeting to get the 10 points.

Total Points Possible for Semester/Grading Scale = 1050

1050-900 = A	899-800 = B
799-700 = C	699-600 = D
599 and below = F	

Grading Table

Assignment	Points Possible	Percentage of Final Grade
Attendance <ul style="list-style-type: none"> • Required (absent less than 3 class meetings will not affect the grading). 	0 points	0%
Assignments <ul style="list-style-type: none"> • 4 assignments @ 75 points each. 	300 points	30%
Quizzes <ul style="list-style-type: none"> • 5 quizzes @ 40 points each. 	200 points	20%
Paper Review, Oral Presentation, Useful Tools <ul style="list-style-type: none"> • 5 reviews @ 20 each. • 5 presentations @ 20 each. 	200 points	20%
Term Project <ul style="list-style-type: none"> • Report one @ 50 points. • Attend project discussion @50 points • Final report @ 150 points. • Presentation and evaluation @ 50 points. 	300 points	30%
Extra credits <ul style="list-style-type: none"> • Attend research meetings @ 50 points. 	50 points	5%
Total Points Possible	1050 points	105%

COURSE CALENDAR

The contents of the course are organized into 17 weeks. Please refer to Table 1 for lessons, topics, and readings materials. Table 2 lists the suggested study schedule, assignments, quiz, and term project due dates.

Table 1. Lessons and Readings

Lessons	Topics	Readings
Lesson 1	Introduction to health and artificial intelligence (from different perspectives, such as patient care, healthcare providers, administration).	Bohr & Memarzadeh: Chapter 1 Monlezun : Chapter 1
Lesson 2	Digital collections in health (different types of digital data in health where AI can help). <i>Demo 1: Collecting different types of healthcare data using web scraping (PubMed, social media, healthcare website, and others)</i>	PPT
Lesson 3	AI technologies for health (fundamental of AI/ML/NLP/CV/DM in healthcare).	Bohr & Memarzadeh: Chapter 1.4 (ML), 2.4.2 (NLP), 3.3.2 (DM), 6.1 (CV) Monlezun : Chapter 2
Lesson 4	Overall applications of AI in health (precision medicine, drug discovery, smart diagnostics, intelligent personal health records, robotics system, ambient assisted living, and others). <i>Demo 2: AI related libraries and tools for health</i>	Bohr & Memarzadeh: Chapter 2
Lesson 5	Evaluations of AI applications in healthcare (how to evaluate the performance and reliability of different applications).	PPT
Lesson 6	AI for precision medicine and clinical trial retrieval (applications in IR). <i>Demo 3: Information retrieval systems (such as precision medicine) for health</i>	Monlezun : Chapter 3
Lesson 7	Drug discovery and molecular modeling using AI (applications in DM).	Bohr & Memarzadeh: Chapter 3
Lesson 8	AI for drug delivery and pharmaceutical development (applications in Logistics). <i>Demo 4: Data mining for healthcare data</i>	Bohr & Memarzadeh: Chapter 4
Lesson 9	Smart diagnostics and treatment decisions using artificial intelligence (applications in AI).	Bohr & Memarzadeh: Chapter 5
Lesson 10	Medical devices and artificial intelligence (applications in AI).	Bohr & Memarzadeh: Chapter 7 Monlezun : Chapter 5.4 – 5.5
Lesson 11	Remote patient monitoring using artificial intelligence (applications in AI). <i>Demo 5: Text classification, summarization, and chatbot</i>	Bohr & Memarzadeh: Chapter 9 Monlezun : Chapter 8
Lesson 12	Security, privacy, information-sharing, Ethical issues of AI in health (optional, depends on schedule).	Bohr & Memarzadeh: Chapter 10, 12
Lesson 13	The future AI system in healthcare: blueprint, roadmap, and DNA (optional, depends on schedule).	Monlezun : Chapter 9

Study Schedule and Due Dates

(Assignments will due on **Sunday midnight** of the specified week. Quizzes will be offered in the beginning of the class meeting of the specified week. Term project final report will due on May 8 midnight). The time of the health informatics lecture series might be changed based on the speakers' schedule.

Table 2. Study Schedule and Due Dates

Academic Week	Dates	Meeting Date	Class Content	Assignment/Project /Paper Review /Quiz Due
1	Jan 14-Jan 20	No Meeting MLK Jr. Day	Please make sure you get the two required textbooks	
2	Jan 21-Jan 27	Jan 22	Review the syllabus Lesson 1	
3	Jan 28-Feb 3	Jan 29	Lesson 2 Demo 1	Quiz 1 Assignment 1
4	Feb 4-Feb 10	Feb 5	Lesson 3	Quiz 2 Paper Review 1 (Note & Presentation)
5	Feb 11-Feb 17	Feb 12	Lesson 4 Demo 2	Assignment 2
6	Feb 18-Feb 24	Feb 19	Lesson 5	Quiz 3 Paper Review 2 (Note & Presentation)
7	Feb 25-Mar 2	Feb 26	Lesson 6 Demo 3	Project Topics
8	Mar 3-Mar 9	Mar 4	Lesson 7	Quiz 4 Paper Review 3 (Note & Presentation)
9	Mar 10-Mar 16	No Meeting Spring Break		
10	Mar 17-Mar 23	Mar 18	Lesson 8 Demo 4	Assignment 3
11	Mar 24-Mar 30	Mar 25	Lesson 9	Quiz 5 Paper Review 4 (Note & Presentation)
12	Mar 31- April 6	April 1	Lesson 10	
13	April 7-April 13	No Meeting	Work on Term Project	Term Project First deliverable
14	April 14-April 20	April 15 (Online)	Lesson 11 Demo 5	Paper Review 5 (Note & Presentation)
15	April 21-April 27	April 22	Lesson 12	Assignment 4
16	April 28-May 4	Individual meeting with each group	Progress and Discussion on Term Project	Slides of the Project Presentation Due May 4 Midnight
17	May 5-May 11	May 6	Class Summary. Term Project Presentation	Term Project Final Report Due at May 8 Midnight

COURSE EVALUATION

Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the SPOT website at <http://spot.unt.edu/> or email spot@unt.edu.

COURSE POLICIES

Assignment Policy

Students should submit the assignments and term project reports at class site in canvas.unt.edu: doc (or .docx) files with the code link on GitHub included in the file, also with the code uploaded on GitHub, details will be included in each assignment.

Examination Policy

There are no exams for this course.

Instructor Responsibilities and Feedback

- Helping students grow and learn
- Providing clear instructions for projects and assessments
- Answering questions about assignments
- Identifying additional resources as necessary
- Providing grading rubrics
- Reviewing and updating course content
- The instructor and TA will respond to students' emails and questions posted to the discussion boards within two days except for the weekends
- Assignments grades and feedbacks will be returned to the students within one week after the submission deadline.

Late Work and Missed Work

Students are expected to submit assignments and projects on time. **The due dates are Sunday or the specific date at 11:59pm of the week in Table 2. Study Schedule and Due Dates.** If an extenuating circumstance such as a medically diagnosed illness or a family emergency arises, which prevents you from submitting your assignments, you should contact the instructor and the TA as soon as possible before the due date. Late work without the permission of the instructor will receive a grade with a 10% penalty (or 10 points out of 100) per day after the due date. A student who is having trouble with assignments is strongly encouraged to contact the instructor and the TA as early as possible for personal advising.

Course Incomplete Grade

The UNT Graduate Catalog (<http://catalog.unt.edu/index.php?catoid=16>) describes and explains grading policies. A grade of Incomplete (I) will be given only for a justifiable reason and only if the student is passing the course. The student is responsible for meeting with the instructor to request an incomplete and discuss requirements for completing the course. If an incomplete is not removed within the time frame agreed to by the instructor and student, the instructor may assign a grade of F.

Withdrawal

The UNT Graduate Catalog (<http://catalog.unt.edu/index.php?catoid=16>) describes and explains withdrawal policies and deadlines. The UNT semester course schedule lists specific deadlines regarding withdrawal. A grade of Withdraw (W) or Withdraw-Failing (WF) will be given depending on a student's attendance record and grade earned. Please note that a student who simply stops attending class and does not file a withdrawal form may receive an F.

Attendance Policy

Students are encouraged to attend each class meeting. Prior to the meeting, please preview the readings for the class and prepare your questions for discussion. You will miss classwork and activities if you do not attend the class.

COVID-19 Impact on Attendance

While attendance is expected as outlined above, it is important for all of us to be mindful of the health and safety of everyone in our community, especially given concerns about COVID-19. Please contact me if you are unable to attend class because you are ill, or unable to attend class due to a related issue regarding COVID-19. It is important that you communicate with me prior to being absent so I may make a decision about accommodating your request to be excused from class.

Students' Responsibility for Their Learning

The students are required to follow course schedule and finish the classwork, assignments, quizzes, and term projects. Students are expected to study 12-15 hours per week to achieve satisfactory class performance. Students do not have programming experience are required to find extra materials to study.

UNT POLICIES

Academic Integrity Policy

Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

ADA Policy

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request accommodations at any time; however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the ODA website at disability.unt.edu.

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Blackboard for contingency plans for covering course materials.

Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Blackboard online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual records; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct can be found at deanofstudents.unt.edu/conduct.

Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail: eagleconnect.unt.edu/.

Sexual Assault Prevention

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal

laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT's Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim's compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565-2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at oeo@unt.edu or at (940) 565 2759.

Important Notice for F-1 Students taking Distance Education Courses

Federal Regulation

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the Electronic Code of Federal Regulations website at <http://www.ecfr.gov/>. The specific portion concerning distance education courses is located at Title 8 CFR 214.2 Paragraph (f)(6)(i)(G).

The paragraph reads:

(G) For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

University of North Texas Compliance

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

- (1) Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
- (2) Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, s/he should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email internationaladvising@unt.edu) to get clarification before the one-week deadline.

Student Verification

UNT takes measures to protect the integrity of educational credentials awarded to students enrolled in distance education courses by verifying student identity, protecting student privacy, and notifying students of any special meeting times/locations or additional charges associated with student identity verification in distance education courses.

See [UNT Policy 07-002 Student Identity Verification, Privacy, and Notification and Distance Education Courses](#).

Use of Student Work

A student owns the copyright for all work (e.g., software, photographs, reports, presentations, and email postings) he or she creates within a class and the University is not entitled to use any student work without the student's permission unless all of the following criteria are met:

- The work is used only once.
- The work is not used in its entirety.
- The use of the work does not affect any potential profits from the work.
- The student is not identified.
- The work is identified as student work.

If the use of the work does not meet all of the above criteria, then the University office or department using the work must obtain the student's written permission.

Download the [UNT System Permission, Waiver and Release Form](#)