

Introduction to Circuit Analysis (ENGR D077 – Section 65R)

De Anza College Winter 2024

Ali Saeidi Ashtiyani

Lectures:

Tuesday - Friday 6:00 PM - 7:15 PM

Classroom:

S56

Office hours and Class Zoom:

Join Zoom Meeting

<https://fhda-edu.zoom.us/j/3467678407>

Meeting ID: 346 767 8407

Email: saeidiashtiyaliani@fhda.edu

Course objectives

1. **Conceptual Mastery:** Demonstrate a comprehensive understanding of key machine learning concepts, including supervised and unsupervised learning, training and test datasets, model evaluation metrics, and bias-variance trade-offs.
2. **Technical Proficiency:** Apply appropriate machine learning algorithms and tools to real-world data sets, ensuring data preprocessing, feature extraction, and model optimization are performed to industry standards.

3. **Research & Innovation:** Critically analyze current research and trends in the field of machine learning, identifying potential gaps and areas for further exploration or improvement.
4. **Project Management:** Efficiently manage a machine learning project from conception to conclusion, utilizing effective project management tools and methodologies to ensure timely completion and high-quality outcomes.
5. **Ethical Considerations:** Recognize and address potential ethical concerns associated with machine learning applications, ensuring fairness, transparency, and respect for privacy in all project implementations.
6. **Collaborative Skills:** Work effectively in teams, leveraging diverse perspectives and skills to achieve optimal project outcomes and foster interdisciplinary understanding.
7. **Communication Skills:** Effectively communicate complex machine learning concepts, methodologies, and findings to both technical and non-technical audiences through written reports, presentations, and interactive demonstrations.

Required Text Books

- N/A

Course Evaluation

Presentations and Reports 100%

And the overall course grade (letter-grade) will be assigned based on the distribution below:

- | | |
|-------------------|----|
| • 100% to 94.5%: | A |
| • 94.5% to 89.5%: | A- |
| • 89.5% to 86.5%: | B+ |
| • 86.5% to 83.5%: | B |
| • 83.5% to 79.5%: | B- |
| • 79.5% to 74.5%: | C+ |
| • 74.5% to 69.5%: | C |
| • 69.5% to 66.5%: | D+ |
| • 66.5% to 63.5%: | D |
| • 63.5% to 59.5%: | D- |
| • <59.5%: | F |

Americans with Disabilities Act:

If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with DRC to establish a record of their disability.

Student Learning Outcome(s):

- Investigate an area of special interest and demonstrate an appropriate level of understanding and expertise.

Office Hours:

F	04:30 PM	06:00 PM	Zoom	By Appointment
F	05:00 PM	06:00 PM	Zoom	By Appointment