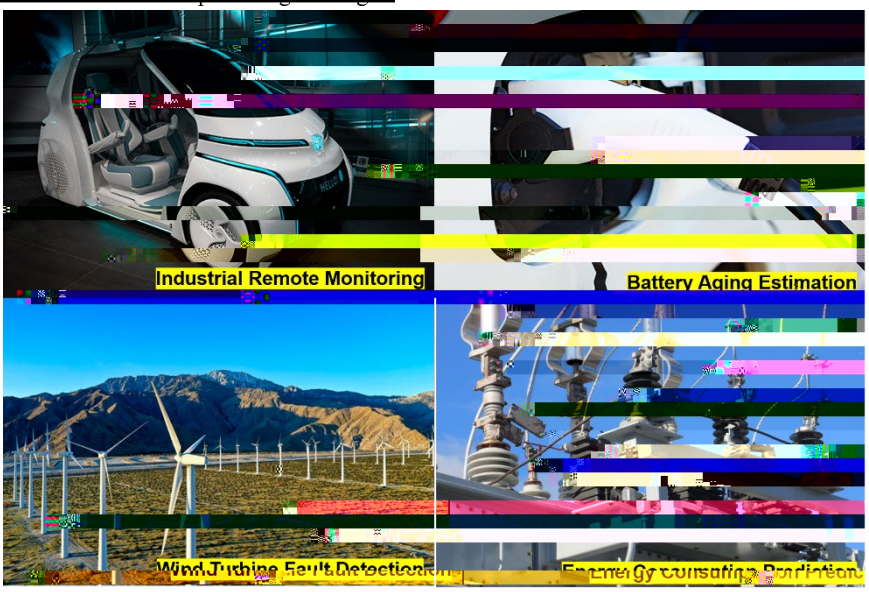
COEN 4890/EECE 5890 Summer 2022
Developments in Computing :
Artificial Intelligence for Industrial Applications



- Define Industrial AI application scenarios according to their industrial, analytic, and business functions
- Identify appropriate solutions based on Industrial AI case studies
- Recognize how industry developers format Industrial AI code

- Student Feedback

-Very flexible course!

-Can learn how to apply ML for industry use!

-Walkthrough, and Explanation for all coding!

Instructor:
Dr. Dong Hye Ye , ECE, Marquette Univers ity.

COURSE FORMAT

- Asynchronous Online Lecture created by Foxconn iAI
- Great for Co-op/ Internship Undergraduate or Part-time Graduate
- Active Discussion and Q&A Forums in D2L led by Instructor
- Hands -on Coding Lab and Projects with Real Industry Data

PROJECT EXAMPLES

- Predictive Maintenance
  - Turbofan Engine Lifetime Estimation
- Virtual Metrology
  - Planarization of Semiconductor Wafers
- Energy Management
  - Facility Energy Consumption Prediction
- Machine Vision
  - Quality Inspection of Steel Components
- Scheduling Optimization
  - Flexible Job -shop Scheduling