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 University.

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

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

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