Define **AI application scenarios** according to their industrial, analytic, and business functions

Identify appropriate solutions based on **AI case studies**

Recognize how industry developers format **AI code**

Applicable to **Systems Engineering Certificate**

Applicable to **Machine Learning Certificate**

**COEN Majors**, course counts as a depth-only elective in **Intelligent Systems**

**ELEN Majors**, course counts as a depth-only elective in **Computer HW/SW**

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**Student Feedback**

- Very flexible course!
- Can learn how to apply ML, AI, and NLP for industry use!
- Walkthrough, and explanation for all coding!

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**Instructor:**

Dr. Priya Deshpande, EECE, Marquette University.

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**COURSE FORMAT**

- Asynchronous Online Lecture
- Active Discussion and Q&A Forums in D2L Led by Instructor
- Hands-on Coding Lab and Projects with Real Industry Data

**PROJECT EXAMPLES**

- Predictive Analysis
  - Breast Cancer Detection and Prediction
- 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

Or Propose Your Own Topic