TECH FRONTIERS - MACHINE LEARNING - MICRO-CREDENTIAL

Tech Frontiers is the professional development program of the College of Engineering and Applied Science of the University of Colorado Boulder, offering short form learning on contemporary topics in engineering. Through live sessions taught by CU faculty experts, Tech Frontiers courses offer a mixture of classroom content and hands-on project experience. Participants interact with faculty and peers while learning and applying emerging technologies and concepts.

Tech Frontiers provides a unique offering to mid-career professionals who need updated skills in engineering. This program provides a service to the tech community, allowing workers to advance their careers, while positioning CEAS as a primary source for lifelong learning in technical industries. Content includes the ethical implications of the technology studied.

Engineering is continually emerging, and professionals need ways to update their understanding. Through short-form sessions, participants have the unique opportunity to discover or strengthen their skills in emerging or rapidly changing topics under the guidance of faculty experts. The intensives combine lecture and hands-on projects, giving participants insight on both the theory and application of these technologies. In addition, the programs provide networking opportunities so that participants can expand their reach and hear how these topics are applied in various industries.

Engineers must regularly update their skills and understanding as technology evolves. Future employers or academic institutions would see a commitment to continuous improvement and knowledge of increasingly key topics and their ethical implications. The topics are relevant to many industries and prepare participants for the future of technological application.

Eligibility
Specific population of learners (corporations, community members, etc.)

Delivery Mode
Hybrid of in-person and online delivery

Credit Status
Noncredit

Academic Level
Professional

Time to Completion
Days

Requirements
Register for and attend a Tech Frontiers two-day session, either remotely or in person. Complete the final project synthesizing knowledge gained.

Criteria
The final project must indicate that they can apply learnings to a classification task and defend their choices for high accuracy in classifying the test set. Learner work will be collected in (and may be shared from) a github repository.

Skills
- Computing
- Coding
- Data
- Engineering
- Artificial Intelligence
- Ethics in Technology
- Computer Science