

Level 3 AI Certificate - Short Courses for Aspiring AI Developers

(computational proficiency background and research focus required)

All (???) courses required to obtain Level 3 Certificate

Pre-reqs ... Offered by ITS

- Programming for AI/ML
- Coding w AI
(Vedansh A.)

Web Programming and UI for AI/ML
- Comp w MS Azure
(Avi Mudireddy)

Existing ITS Courses

- *Python for Data Analysis: Python Fundamentals (with Pandas)*
- *Python for Data Analysis: Machine Learning Using Scikit-Learn with Python*
- *Introduction to High Performance Computing (Using Argon)*
- *Basic Linux Commands on Clusters*

HawkAI-301:
AI Designer Education: Introduction to AI design and development
(Hans Johnson)

HawkAI-309:
Data Management for AI/ML
(Heath Davis?)

HawkAI-302-306 ... Methods (make each based on 2-3 cases (or maybe just one in detail from start to finish) plus additional 1-2 to show that things can be partly same and partly different:

HawkAI-302:
Generative AI -
Methods, Approaches, Data augmentation, Tools, Frameworks, Interfaces, Performance assessment for working with text/image/video generation
(Tyler Bell)

HawkAI-303:
Generative AI -
Near-time generative AI, with applications to performance arts and beyond ... broadly understood as including near-real-time AI for generating text/image/video or “answers” for general audience
(Dan Fine, Tyler Bell)

HawkAI-304:
Analytical AI -
Methods, Approaches, Data augmentation, Tools, Frameworks, Interfaces, Performance assessment for working with general data
(Kishlay Jha)

HawkAI-305:
Analytical AI/ML -
Methods, Approaches, Data augmentation, Tools, Frameworks, Interfaces, Performance assessment for working with text analytics
(Hans Johnson+Driving Sim)

HawkAI-306:
Analytical AI -
Methods, Approaches, Data augmentation, Tools, Frameworks, Interfaces, Performance assessment for working with images
(Yanan Liu)

HawkAI-307:
The Ethics of AI: Bias, Legal, Regulatory Issues and Beyond, AI Usage and Trust (similar content as in Level 1 but from a designer perspective)
(Ethics group)

HawkAI-309:
Deployment of AI/ML Tools
(include API and Web Services for AI/ML
- Web programming and User interfaces)
(ITS? Who?)