AIBridge Boot Camp

July 10-14, 2023
Cornell University, Ithaca, NY

- *Build a bridge between AI and your application domain*
- *Learn how to use AI toolboxes*
- *Minimal prior programming experience required*
- *Apply what you learn in hands-on labs*
- *Get immediate help from lab instructors*
- *Free of charge*

The purpose of AIBridge is to bridge the gap between computer science and other disciplines. To many, working with AI might seem an unreachable objective. However, in reality, a 5-day boot camp is enough to get started. AIBridge will provide basic programming capability in Python and knowledge of object-oriented programming as well as the concepts behind Machine Learning and how to implement it using a popular toolbox, Scikit-Learn.

Python Basics
- Operations (pip, jupyter, colab)
- Types and Type Operations
- Control Flow (for, while)
- Logic Operations (if, else)
- List and String Manipulation
- Object-Oriented Programming
- Input/Output

AI Content
- Data Manipulation
- Linear and Logistic Regression
- Classification (decision trees, random forest, naïve bayes, etc.)
- Ops (training/testing, over/underfitting)
- Unsupervised Learning
- Scikit-Learn Toolbox

Instructor: Xin Liu, Professor, Computer Science, UC Davis, in collaboration with Samuel Ren and Jiaming Situ
Location: Cornell University, 253 Rhodes Hall, Hoy Road, Ithaca, NY 14853
Dates Monday, July 10 thru Friday, July 14, 9:00am to 4:00pm daily

Daily Schedule
9:00-10:30 Lecture 1
10:30-12:00 Lab
12:00-1:00 Lunch Break
1:00-2:30 Lecture 2
2:30-4:00 Lab

Lectures
Day 1:	Lecture 1: Colab, Types, Control	Lecture 2: Logic, List, I/O
Day 2:	Lecture 1: Function, OOP	Lecture 2: Linear Models
Day 3:	Lecture 1: Data Manipulation	Lecture 2: Classification
Day 4:	Lecture 1: Ops, Classification	Lecture 2: Unsupervised
Day 5:	Lecture 1: Ethics, Adv. Technology	Lecture 2: Project Presentation

Cost: No fee to attend. Attendees responsible for own lunches (except Day 5).
Registration: *Please do not register unless committed to attend*. Demand is high (35 limit). Preference given to grad students/postdocs/staff working with Cornell faculty, followed by undergrads and industry. Register here.
Participants: Bring your laptop (even a Chromebook will do). Gmail access to your Google Account required.
Contact: Eslie Medallon, Cornell Center for Advanced Computing, eam425@cornell.edu, 607-255-3863.

"AI's expanding impact across application domains underscores the importance of AI education for everyone" – Xin Liu