The purpose of the AIBridge bootcamp is to bridge the gap between computer science and other disciplines. AIBridge will teach basic Python programming, the concepts behind machine learning, and how to use it. This bootcamp will be **in-person** and will target mainly non-CS adults interested in AI.

Why You Should Join AIBridge

- Build communication/leadership skills
- Help grow the reach of AI to your community
- Develop confidence and breadth — teach a very diverse audience, potentially including adults and graduate students in universities

Key Aspects of AIBridge

- First bootcamp offered at **UC Davis** in June 2022, to 17 undergraduate, graduate students, and postdocs.
- Upcoming camp planned at **Saratoga Library**.
- Aims to extend AIBridge to other schools and public libraries.
- Targeting **non-CS** people with a focus on **intuition** and **usage** of AI toolboxes

Expectations for Teachers

- General programming experience and 1+ year of experience with Python
- Knowledge of machine learning concepts listed below
- Strong public speaking skills
- Writing readable code at a reasonable pace
- 10 hours available allocated for training
- Additional time commitment for practice
- **Strongly Recommended:** Attend camp at Saratoga Library (shown next page)

Expectations for Teacher Assistants

If you are enthusiastic about AI and want to learn more, being a TA is a good starting point

- General programming experience and 1+ year of experience with Python
- 10 hours available allocated for training
- **Strongly Recommended:** Attend camp at Saratoga Library (shown next page)

Apply to be a Teacher or Teacher Assistant: https://forms.gle/UktZnLWKiFcSPUd67
Website: http://aibridge.us
Contact us at: aibridgecamp@gmail.com

Next Course Date and location: **3/11, 3/12, 3/18, 3/19, 2023, 1 - 5pm**. In-person at the Saratoga Library

Python Basics:

- Operations (colab)
- Types and type operations
- Control flow (for, while)
- Logic operations (if, else)
- List and string manipulation
- Basic object-oriented programming
- Input/output

Machine Learning (ML) :

- Data manipulation
- Classification (Decision Trees, Random Forest, Naive Bayes, SVM, etc.)
- Regression (linear and logistic regression)
- OPs (training, validation, testing)
- Unsupervised learning (clustering, KNN)
- Scikit-Learn toolbox

Schedule

Daily Schedule
1:00 - 2:00 Lecture 1
2:00 - 2:50 Lab
2:50 - 3:10 Break
3:10 - 4:10 Lecture 2
4:10 - 5:00 Lab

Content Schedule

3/11/23	Day 1:	Lecture 1: Colab, types, control	Lecture 2: Logic, list, I/O
3/12/23	Day 2:	Lecture 1: Function, OOP	Lecture 2: Regression
3/18/23	Day 3:	Lecture 1: Data manipulation	Lecture 2: Classification
3/19/23	Day 4:	Lecture 1: OPs, classification	Lecture 2: Unsupervised

Instructors
Samuel Ren, 10th grade, Gunn HS
Jiaming Situ, 11th grade, Homestead HS
Xin Liu, Prof. of Computer Science, UC Davis

Register to attend
Saratoga Library
13650 Saratoga Ave
Saratoga, CA 95070
www.sccld.org/saratoga

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