

Tony Tong

Cambridge, MA
github.com/tongbaojia

+1 (xxx) xxx-xxxx
tongbaojia.github.io

tongbaojia@gmail.com
linkedin.com/in/baojiatonytong

Skills

Languages Python, C++
Packages PyTorch, DGL, XGBoost, Sklearn, ROOT
Tools Cursor, Git, Bash, \LaTeX

Experience

SUNO

Machine Learning Engineer

Cambridge, MA
Aug 2023–present

- 1st hire @ SUNO.
- Lead **post-training, evaluation, inference performance optimization and monitoring, ML operations** for foundational audio generative models.

Meta Platforms, Inc.

Machine Learning Engineer

Cambridge, MA
Aug 2022–Aug 2023

- Tech lead on accuracy workstream. Increased high-impact metric accuracy on novel devices by more than 50% through data-driven algorithm developments, which directly improved user sentiments.
- Collaborated with two engineering XFNs, Data Science and Project Managers, and set directions on novel features and data acquisition methods.
- Planned, executed, validated, and improved data collection experiments.
- Developed data simulation framework for continuous validation and development.

Kensho Technologies

Machine Learning Engineer

Cambridge, MA
Oct 2018–Jul 2022

- Lead the document intelligence team's work and research planning, collaborating with 4 machine learning engineers on OCR, text ordering, and document layout analysis.
- Created and productionized a **novel graph-based deep learning model** for document layout analysis. Achieved state-of-the-art performance in classification and segmentation of documents with less than 10% of the computation cost.
- Combined the graph model with **natural language understanding** to create a key-value extraction tool.
- Productionized a **financial key-value extraction workflow** for broker research documents. The pipeline automatically extracts $\sim 60\%$ of data with $\sim 98\%$ precision.
- Built and deployed a **general-purpose synonym model** based on Wikipedia open data. The model powers the **text expansion** capability on search platforms daily.

Education

Harvard University, Ph.D. in Physics

Sep 2012–May 2018

California Institute of Technology, B.A. with honors in Physics

Sep 2008–Jun 2012