Mike (Yuan Hung) Lo

San Francisco Bay Area, CA | (510) 710-4906 | hellomikelo@gmail.com | linkedin.com/in/mike-yhl | github.com/yuanhunglo

TECHNICAL SKILLS

Languages/Tools: Python, Matlab, Unix shell, git, GCP, GKE, Docker, AWS, SQL, Blender
Python packages: numpy, matplotlib, pandas, sklearn, seaborn, keras, tensorflow, spark
Skillsets: machine learning, data wrangling and visualization, image processing, project management

EXPERIENCE

Insight Data Science, San Francisco 1/2020 – present
Insight AI Fellow (github.com/yuanhunglo/pair)

- Developed Pair, an image-based product collection recommender system that uses convolutional neural network (VGG16) to find stylistically similar products across categories
- Engineered an end-to-end product inference engine in keras and performed transfer learning in a containerized environment on Google Cloud Platforms
- Built a containerized Streamlit web application and served it online using Google Kubernetes Engine as a load-balanced set of replicas that can scale to user demands (bit.ly/pair-app)
- Used git for version control and code reviews

UCLA Department of Physics, Los Angeles 10/2014 – 12/2019
PhD Researcher

- Managed 6 fast-paced synchrotron X-ray 3D imaging experiments with teams of 10+ scientists to discover novel nanoscale features and compositions in minerals and cells (2 high-impact publications)
- Designed, built, and optimized new lensless X-ray image reconstruction algorithms in Matlab (1 high-impact publication) and published the codes online (physics.ucla.edu/research/imaging/)
- Analyzed terabytes of 2D and 3D X-ray imaging data using GPU and cloud computing to drive high-dimensional scientific insights into structure and function of materials
- Delivered research milestones and effectively communicated results to cross-functional teams by distilling relevant information for relevant stakeholders

UCLA Office of Intellectual Properties, Los Angeles 2/2014 – 10/2015
Technology Fellow

- Evaluated market potential of 30+ emerging UCLA technologies to support licensing operations
- Performed prior art search and due diligence to facilitate new IP development
- Communicated with business development managers to help license technologies to external companies

LEADERSHIP EXPERIENCE

UCLA Department of Chemistry/Physics, Los Angeles 1/2014 – 6/2016
Teaching Assistant

- Advised 25 students in biophysics lab to conduct lensless imaging experiments using Python algorithms
- Assisted in teaching 4 undergraduate courses ranging in size from 30 to 300 students, with topics covering macromolecular biochemistry and biophysics
- Facilitated weekly physics whiteboard problem-solving sections for ~10 undergraduates

PROJECTS

IBM Data Science Professional Certificate, Coursera

- Completed 9 required courses in Data Science (144 hours)
- Mastered skills in SQL, Python, data analysis and visualization, web scraping and machine learning
- Delivered a capstone project that scraped web data on Los Angeles venues, crime rates and rental prices and performed clustering to recommend livable Los Angeles neighborhoods (hellomikelo.com)

Advanced Data Science with IBM, Coursera

- Completed 4 required courses in Advanced Data Science (104 hours)
- Gained proven knowledge in deep learning, Internet of Things (IOT), natural language processing, computer vision, time series analysis and cloud computing
- Applied convolutional neural network for image background subtraction in electron tomography

EDUCATION

Ph.D. Bioengineering, University of California, Los Angeles 9/2013 – 12/2019
B.S. Biophysics, University of California, San Diego 9/2006 – 6/2011