

Yu-Ting Shen

QUALIFICATIONS

- Ph.D. degree with experience in large-scale data analysis and machine learning to build predictive models.
- Proficient in Python, C/C++, SQL and shell script.
- Experienced in Keras, TensorFlow, Spark, and Hadoop.
- Passionate about discovering insights hidden in data in order to tell the story of data to non-experts.
- Excellent analytic and problem-solving skills through critical thinking, and teamwork with colleagues.

EXPERIENCE

Seeloz Inc. Data Scientist

San Jose, CA | 2019/04 - present

- I do something great
- I do something awesome
- I do something amazing

University of Oklahoma PostDoc Researcher

Norman, OK | 2018/07 - 2019/01

- Investigated 1M+ new experimental records to improve model prediction precision by uncovering the hidden relation between momentum and TPR.
- Generated Monte Carlo simulation data and extracted useful features by applying feature engineering.

CERN Research Scientist

Geneva, Switzerland | 2015/03 - 2018/02

- Established and optimized the data analysis pipeline to reduce 80% CPU time and improved key performance metrics. Programmed in Python to build decision tree and regression models for analysis team.
- Built regression model and applied statistical methods to extract signal within 95% confidence interval.
- Improve true positive rate from 0.85 to 0.93 by developing a new classification model for the electron isolation efficiency which became the standard version for the collaboration.

Academia Sinica Research Scientist

Taipei, Taiwan | 2009/07 - 2011/07

- Discovered serious bugs in simulation programs by performing exploratory data analysis on simulated data. Programmed in C++ to redesign bug-free Monte Carlo simulation programs.
- Improved 50% of the signal significance by devising a new classification model.

Taiwan Semiconductor Manufacturing Company R&D engineer

Hsinchu, Taiwan | 2006/12 - 2009/02

- Led and supported 7 projects to build various models to predict the device performances and documented the model usages and performances.
- Developed a standard operating procedure (SOP) in analysis pipeline to reduced 5% to 10% model variance and instructed colleagues how to apply the SOP in their projects.
- Converted potential clients to paying clients by providing preliminary models matching clients' specifications.
- Coordinated effectively with cross-functional teams and clients to resolve issues with tight deadlines.

EDUCATION

University of Oklahoma Ph.D. in Physics

Norman, OK | 2011/08 - 2018/05