Dr. Yu-Ting Shen

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EXPERIENCE

Senior Data Scientist

Seeloz Inc, San Jose, CA

2019/04 - present

- Analyzed clients' supply chain raw data using Python and SQL/BigQuery to identify root of business problems and created data visualizations and analytical reports using Python Matplotlib, Seaborn, Bokeh, and Plotly packages.
- Created dashboard using Google DataStudio, Tableau and Power BI showing supply chain metrics for stakeholder to help decision making.
- o Built predictive models for demand forecast using Scikit-Learn, XGBoost, LightGBM, and TensorFlow.
- o Built time series forecasting models using ETS, ARIMA, Exponential-Smoothing and Prophet.
- Built anomaly detection models to detect anomaly in orders and deliveries in supply chain.
- Implemented **Reinforcement Learning** model to optimize supply chain management and increase 44% annual turnover rate.
- Implemented EOQ, TPOP, and ROP supply chain models to build resource planing recommendations.
- o Developed Python API offering cross-platform capability for accessing storage blobs on GCP, Azure, S3.
- Developed Shell script to submit training jobs to Google AI platform, Azure VMSS and on-premises clusters.
- Led junior data scientists on the team and facilitated resolution of project-related challenges.

Data Scientist

CERN, Geneva, Switzerland

2015/03 - 2018/03

- o Improved the electron isolation efficiency from 83% to 99% (a 19% increase) by restricting the transverse energy and momentum distributions within a topological cone of 0.2 in spherical coordinate. The outcome set a new benchmark for all analysis at CERN.
- o Designed, optimized, and implemented a high-performing classification model for real leptons across multiple energy scales, leveraging both statistical and machine learning methodologies. This resulted in a significant improvement in the model's recall, which increased from 62% to 98%.
- Conducted a comprehensive analysis of an extensive 400 TB dataset and employed decision tree, multidimensional regression, and statistical models, to deliver sophisticated solutions that effectively addressed complex project requirements.

Research Scientist

Academia Sinica, Taipei, Taiwan

2009/07 - 2011/07

• Created a Monte Carlo simulation model using C++ and increased 20% precision.

R&D Engineer

TSMC, Hsinchu, Taiwan

2006/12 - 2009/02

 Performed rigorous statistical analysis to develop models for advanced IC devices with cutting-edge technology.

SKILLS

- **Programming**: Python, SQL, C/C++, Spark, Bash Shell script,
- o Machine learning, Deep learning: Scikit-learn, Keras, TensorFlow, PyTorch,
- Reinforcement learning: Gym, Stable-Baselines, Ray,
- o Visualization: Matplotlib, Seaborn, Dash, Bokeh, Google DataStudio, Tableau, Power BI,
- o Cloud: Google Cloud Platform, Microsoft Azure,
- o Others: Git, Docker, Jupyter, Databrick, Visual Studio Code, Jira,
- Soft skills: Collaboration, Communication, Problem-solving, Leadership,

EDUCATION