

Yow Ru Chen

PROFILE

Experienced ML/NLP Engineer with a diverse background across corporate engineering, academia, and data journalism. Certified in Deep Learning and Mathematics for Machine Learning. Proficient in Python, Flask, Django, and Ruby on Rails, and skilled in data structures and algorithms. An international collaborator with experiences in the USA, Japan, Vietnam, and Middle-East, with strong passion in financial and infrastructure industry.

EMPLOYMENT HISTORY

Apr 2023 — Present	Machine Learning Engineer, Full-time, Exawizards Inc. Tokyo <ul style="list-style-type: none">Spearheaded the development of an automated evaluation platform for Sales Force Automation (SFA) by leveraging OpenAI's API, resulting in a 95% increase in sales opportunities. Secured a patent from the Japan Patent Office (Patent No. 7471760).Led and managed a team of nine professionals in the successful development of Exawizards' proprietary language model for the Japan power industry.Enhanced the company's search engine product, achieving an 80% improvement in the accuracy of email address extraction.Designed and implemented advanced machine learning algorithms to optimize customer segmentation, leading to a 40% increase in the effectiveness of targeted marketing campaigns.Conducted comprehensive data analysis and visualization using Python and SQL, providing actionable insights that contributed to a 20% reduction in operational costs.
Sep 2021 — Dec 2022	AI Engineer, Part-time Scholar, Matsuo Institute Tokyo <ul style="list-style-type: none">Led a team of four engineers to successfully renew an over \$1 million dollar business contract with clients.Analyzed clients' yearly revenue data and recommended solutions to improve sales by 78%.Designed and built Machine Learning and NLP models from scratch.
Aug 2022 — Nov 2022	Research Engineer, Summer Associate, SenseTime Japan Tokyo <ul style="list-style-type: none">Implemented and designed autonomous driving techniques that utilize both transformer and temporal structures.Incorporated concepts from top research conferences and fine-tuned models to achieve higher accuracy.Developed and deployed real-time anomaly detection systems for autonomous vehicles, enhancing safety measures and reducing false positives by 25%.

EDUCATION

Apr 2021 — Mar 2023	Master of Engineering, Technology Management for Innovation, The University of Tokyo <i>Advised by Professor Yutaka Matsuo</i> <i>Recipient of JASSO and Japan Taiwan Exchange Association Scholarship for the entire course length of study</i>
Aug 2016 — May 2019	Bachelor of Science in Journalism, Northwestern University <i>Merit Scholarship Recipient</i> <i>Journalism residency at Finn Partners in New York</i>

TECHNICAL SKILLS

Programming Proficient in Python (worked with NumPy, SciPy, Pandas, Matplotlib, Flask, Seaborn, Plotly, Scrappy)

Deep Learning Frameworks PyTorch, Tensorflow, Keras, TensorRT, CUDA

Machine Learning KNN, SVM, K-means, Randomforest, XGBoost, LightGBM, Spark ML

Others Linux, Docker, Vim, IPythonNotebook, Google Colab, Git, Github, AWS S3, AWS EC2, LATEX

Certification:

Deep Learning Specialization from DeepLearning.AI:

- Neural Networks and Deep Learning

- Structuring Machine Learning Projects
- Improving Deep Neural Networks
- Convolutional Neural Networks
- Sequence Models

Mathematics for Machine Learning and Data Science Specialization:

- Calculus for Machine Learning and Data Science
- Linear Algebra for Machine Learning and Data Science
- Probability & Statistics for Machine Learning & Data Science

LANGUAGES	Japanese (N1)	Highly proficient	Arabic	Very good command
	Mandarin	Native speaker	Korean	Very good command
	English	Native speaker		

PATENT

Prospective Client List Generation

Leveraging Large Language Models for Automatic Evaluation of Corporate Websites from the Perspective of Targeted Business Development and Generating Listings

Yow Ru Chen, Takanobu Watanabe, Satoshi Ishino

https://ipforce.jp/patent-jp-P_B1-7471760

AWARDS/GRANTS

Japan Taiwan Exchange Association Scholarship

2022-2023 recipient, demonstrating dedication to cross-cultural collaboration and academic excellence.

JASSO Scholarship

2021-2022 awardee, showcasing academic prowess and commitment to international education.

Dr. Lin Tsung-I Foundation Scholarship

2021 recipient, reflecting academic achievement and contributions to the scholarly community.

AI Artathon participant

Recognized for outstanding contributions, and invited to Saudi Arabia with a complimentary flight, in 2021.

Full scholarship recipient from Qatar Science & Technology Park

Entrepreneurial trip to Silicon Valley, USA, in 2018, exemplifying commitment to innovation and professional development.

Full scholarship awardee by Northwestern Global Engagement Studies Institute

Internship in Vietnam, 2018, showcasing dedication to global experiences and practical learning.

Undergraduate Language Grants

Studied Arabic at the American University in Beirut, in 2017, highlighting a linguistic and cultural proficiency commitment.

Buffett Supplemental Research Grants

Awardee, 2017, recognizing dedication to cutting-edge research and academic inquiry.

Taiwan OpenStack Application Hackathon
Technical Recognition

Recipient, 2016, demonstrating technical expertise and excellence in the field.