Noppayut Sriwatanasakdi

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EDUCATION

Osaka University Apr 2016 - May 2018

Master of Information Science and Technology

• GPAX: 4.00/4.00

Chulalongkorn University

Jun 2011 - Jun 2015

Bachelor of Engineering in Computer Engineering

• GPAX: 3.78/4.00 (First class honors)

EXPERIENCE

Square Enix AI & Arts Alchemy Co., Ltd.

Sep 2022 - Present

Tokyo, Japan

Natural Language Processing Engineer

- · Work on natural language understanding and generation capabilities of virtual avatars. Involve in both engineering and R&D.
- Maintain and improve natural language processing (NLP) pipeline from training to integrating models into products.
- · Collaborate with game designers to bring AI into their work.
- · Spearhead development of an ML tool for non-technical users. Responsible for project management, direction setting, design and development of the back-end.
- · Develop and maintain data annotation tool.
- Tools: Python, C++, PyTorch, Transformers, OpenAI, Triton server, gRPC, ONNX, Docker, Google Cloud Platform, FastAPI, Pydantic, PostgreSQL, Redis

Asurion Japan Holdings G.K.

Nov 2019 - Aug 2022

Tokyo, Japan

- Data scientist • Developed Al/data solutions to support smartphone protection services of major Japanese mobile phone carriers. Acted as a technical consultant and a developer for other business units. Presented demo and performance estimation to business users.
 - Collaborated with DevOps for service delivery. Led development and/or maintenance of several projects: FAQ Chatbot: FAQ chatbot to solve user's smartphone issues. Achieved 10% and 25% gains over previous system in absolute
 - trouble resolution and answer display rates respectively. Serving 30k users per month in average. • Keyword suggestion: a system that shows keywords relevant to user input for easier FAQ article search. This system is being used in multiple services, one of which receives 1,000 queries/day.
 - · Webclaim validator: a system for validating user input when filing a device claim through web channel. Significantly reduce the cost of using human validators. Serving 30-40 claims per day.
 - Telemetry trouble prediction: a method to predict smartphone issues using real-time telemetry data (e.g. app usage history). The method is more accurate than guessing with most-common-trouble baselines in top 3, 4, and 5 predictions by large margins.
 - Other projects such as identification of topic boundaries in conversations, development of a text analytic tool for non-technical users, customer behavior analysis and user comment classification.
 - Tools: Scikit-learn, XGBoost, Gensim, PyTorch, Torchtext, Transformers, Matplotlib, Seaborn, MeCab, Pandas, Docker, Flask, FastAPI, AWS EC2, Lambda

Works Applications Co., Ltd.

Apr 2018 - Oct 2019

R&D Engineer

Tokyo, Japan

- · Worked on research and development of machine learning and NLP solution to business problems such as FAQ chatbot, facility management, resignation prediction, etc.
- Tools: Pandas, PyTorch, Seaborn, Scikit-learn, Google Cloud Platform (GAE), Java, Spring, NLTK, Javascript

Guru Square Co., Ltd. Part-time programmer

Mar - Sep 2015

Bangkok, Thailand

· Worked on Thai language sentiment analysis, image processing, and computer vision projects.

• Tools: Apache Spark, OpenCV, Scikit-learn

Thomson Reuters (Thailand) Ltd.

QA programmer intern

Jun - Aug 2014 Bangkok, Thailand

Japan Advanced Institute of Science and Technology

Internship student

Mar - May 2014

Ishikawa, Japan

SKILLS

Professional skills: Machine learning, Natural Language Processing, Data mining, System design, Data visualization

Languages: (Preferred) Python, C++, (Experienced) Java, C, TypeScript, Matlab, Scala

Tools (Al/ML/Viz): Scikit-learn, PyTorch, XGBoost, Transformers, Gensim, Pandas, Numpy, Triton, Matplotlib, Seaborn

Frameworks and Environments: Git, Jupyter lab/notebook, Linux command line, Docker, Amazon AWS (EC2, Lambda, ECS, etc.),

Google Cloud Platform, FastAPI, Flask

Experienced tools: MySQL, Redis, PostgreSQL, Spring framework, Selenium

LANGUAGES

Thai: Native

English: Professional working proficiency (TOEIC 960/990 – 2017, TOEFL-iBT 102/120 – 2019)

Japanese: Limited working proficiency (JLPT N2 - 2017)

AWARDS, HONORS, AND EXTRACURRICULAR EXPERIENCES

Lecturer and mentor, the 4th and 5th Creative AI Camp by CPALL

Nov 2021 – Dec 2022

Winner team of the Thailand NLP Hackathon

Jul 2020

Master degree student with Japanese Government Scholarship (Monbukagakusho)

Apr 2016 - Apr 2018

Teaching Assistant (TA), Java class, Osaka University

Oct 2016 - Feb 2017

PUBLICATIONS

[1] Chairatanakul, N., **Sriwatanasakdi, N.**, Charoenphakdee, N., Liu, X., and Murata, T. "Cross-lingual Transfer for Text Classification with Dictionary-based Heterogeneous Graph", In: Findings of EMNLP 2021. (Long paper)

[2] **Sriwatanasakdi, N.**, Numao, M., and Fukui, K. "Concept Drift Detection for Graph-structured Classifiers under Scarcity of True Labels", In: Proc. of ICTAI, 2017. (Long paper)

OPEN SOURCES AND SIDE PROJECTS

My open source contributions and hobby projects. See more on my Github.

NVIDIA/FasterTransformer #460

• Nvidia's highly optimized transformer models for inference. Fix bugs in Huggingface's Japanese GPT2 conversion to FT model.

PyThaiNLP/pythainlp #723, #735, #751, #752

 Thai language NLP toolkit. Implemented new features such as keyword extraction and Thai-to-English transliteration. Bug fixing and documentation.