(TONY) TANAPON TANTISRIPREECHA

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CAREER HIGHLIGHT

- 7+ years of proficiency in **Mathematics and Computer Science** as a professor at a top-ranked international university, and 2+ years as a Software engineer in a finance technology company.
- 10+ years of coding experience with **C, C++, Java, Python and SQL.**
- 6+ years of research experience in **AI, Deep learning, and Machine learning** and experience in various libraries and frameworks such as **Tenser flow, PyTorch** Scikit-learn, and Re.
- Proficient in core **data structure and algorithms, software development, web development,** and excellent experience in **SQL and NoSQL** database management.

TECHNICAL SKILLS

- **Programming languages**: Java, C, C++, C#, JavaScript, Python, R, Prolog, SQL, .Net, PHP, HTML.
- **Libraries:** Tenser flow, Pytorch, Keras, Scikit-Learn, Pandas, NumPy, NLTK, Matplotlib, Re, Seaborn.
- **Analytics Tools**: Power BI, Tableau, Microsoft Visio, Microsoft Excel.
- **Modeling Techniques**: Statistic Analysis, Data Mining, Data Visualization, Web Scraping, Linear regression, Logistic Regression, CNN, RNN, LSTM, LLM, Transformer, K-mean Clustering, A/B Testing

PROFESSIONAL EXPERIENCE

Mathematics and Computer Science Professor   May 2018 – Jan 2024
Mahidol University, Thailand

- Prepared and delivered lectures to a diverse group of Thai and international undergraduate students in more than 15 subjects and more than 1,000 students in mathematics and computer science courses, including **Deep learning, Natural Language Processing (NLP),** Data Science, Database Management, Java and Web Programming, Mobile Application Programming, Software Engineering, as well as Calculus and Ordinary Difference Equations.
- Selected as an advisor and guided more than 30 senior projects including image classification, object detection, deep learning, CNN, text classification, NLP, sentiment analysis, recommendation system, and mobile applications with verities of programming languages and libraries including Python, TensorFlow, PyTorch, Scikit-learn, Java MySQL and NoSQL. The project results' accuracy was increased by 15-25% individually.
- Published research focused on imbalance text classification with large datasets, resulting in increasing its accuracy and efficiency by 25%.
- Contributed to the academic community by reviewing research papers for international journals and conferences.

Computer Science Professor   July 2017 - March 2018
Rajamangala University of Technology Thanyaburi, Thailand

- Developed and delivered engaging lectures for more than 200 undergraduate students in diverse subjects, including **Artificial Intelligence**, Information Systems, and Database Administration.
- Provided guidance and supported 15 senior projects, as their advisor, within the field of Computer Science using C, C++, and Python.
- Published research focused on stock movement analysis and increased the prediction accuracy by 20%.

Software Engineer   Jan 2016 - June 2017
Polar Bear Technology Group Co., Ltd, Bangkok, Thailand

- Analyzed the stock market movements of the United States, China, and Thailand.
- Created an automatic trading system using Java language via Trader WorkStation (TWS) API. With a winning rate of 80%.
- Tested software to eliminate bugs, fixed the program, and developed its speed. Increased overall program efficiency by approximately 25%.

EDUCATION

- **Doctor of Philosophy** (Computer Science), GPA: 4.0   Nov 2010 - Sep 2016
  Kasetsart University, Thailand
- **Master of Science** in Computer Science, GPA: 3.68   June 2008 - May 2010
  Kasetsart University, Thailand
- **Bachelor of Science** (Computer Science), GPA 3.61 (first-class honors)   Nov 2010 - Sep 2016
  Khonkaen University, Thailand

SCHOLARSHIP AND FUND

Mahidol University Fund, Thailand   2022
- Proposed MeanTIDIF which is a novel term weighting scheme for imbalanced text classification in tokenization step.
- Published in an International Journal of Computing and Informatics, 2022

Thailand Research Fund (TRF), Thailand   2016
- Propose a logic programming for fact handling in a legal expert system.
- Published in The Journal of King Mongkut's University of Technology North Bangkok, 2016

Institute of Information (NII), Internship, Tokyo, Japan   2014
- Researched and developed logic programming and legal reasoning algorithms.
- Published in a paper at the International Conference on Intelligent Computing, 2014.

Konrad Adenauer Stiftung Fund, Germany   2008
- Designed a database and user interface for the Legal Informatics Center Thailand, utilizing PHP and MySQL technologies.
- Developed and deployed a website for the Legal Informatics Center Thailand (currently out of service). The website featured a registration system, search system, web board, and database system.

PUBLICATIONS

Journal
- **A Novel Term Weighting Scheme for Imbalanced Text Classification**, An International Journal of Computing and Informatics, vol 46, no 2, 259–268, 2022.
- **LegalEX: An Expert System for Law**, the Intelligent Decision Technologies, vol 10, pp. 315–328, 2016.
- **A Study and Development of Fact Handling in Legal Expert System**, The Journal of King Mongkut's University of Technology North Bangkok, 2016.

International Conference
- **Stock Market Movement Prediction using LDA**,19th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD). 2018.
- **A Study and Development of Fact Handling in Legal Expert System**, Journal of King Mongkut's University of Technology North Bangkok 27 (3), pp 523-534, 2017.
- **Supreme Court Sentences Retrieval using Thai Law Ontology**, Intelligent Control and Computer Engineering, pp 177-189, 2011