TRUNG THANH TRAN

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WORKING EXPERIENCE

- o **AI Researcher** | Fatima Fellowship | 08/2024 - Present
  - developing SOTO techniques to enhance performance and optimise memory for LLMs / LVMs / foundation models on edge devices.

- o **CTO & Co-founder** | ClientScan Ltd| 01/2023 - Present
  - ClientScan is the leading high-performance face detection application, providing facial recognition and age estimation.

- o **Co-founder** | Takenote.ai| 06/2023 - Present
  - TakeNote – AI-powered to enhance meeting productivity with accurate transcription, summaries and visualisations.

- o **PM & Sr. Data Scientist**| Pixta Vietnam |from 2019 - Present
  - Oct 19 – Now:
    - ▪ Auto review Photos, Footage, and Illustrations for the Pixta Stock platform 30k daily with > 99% precision, and 70% Recall   & replacing humans in reviewing high-quality stock media data.
    - ▪ Learning2Rank system for ranking outputs of Pixta Image Search Engine using LightGBM, Lambda Ranking with 5% increment of Conversion Rate (2021)
    - ▪ Develop a novel algorithm for automatic annotation based on a Transformer that is 5% better than the current Pixta's solution (2020)
    - ▪ Develop a novel algorithm for diversity problem labelling photos using Multi-modeling, ensemble, and transformer techniques published at ICICT Conference 2020

- o **Consultant – AI specialist** | Heligate JSC | 08/2020 - 11/2020
  - April 20 – Now:
    - ▪ Support the company in building the first AI team
    - ▪ Propose solutions for OCR Document classification for the Japanese government
    - ▪ Build an open-domain conversation system using the Rasa framework for company business

- o **Scholar** | Pi School – School of AI |Rome, Italy | 10/2018 - 12/2018
  - Oct 2018 – Dec 2018: Make the first voice of Chabot in the energy industrial domain in Italy

- o **Technical leader & AI Engineer** | Panasonic R&D Center |Hanoi, VN| from 2015 to 2018
  - Feb 19 – Sep 19: Face Recognition
    - ▪ Arc-Face model with f1-score 95%, and anti-spoofing using 3D images.
  - Jan 16 – Apr 19: Speech/Speaker recognition
    - ▪ End2End speech recognition powered by DeepSpeech2; Speaker Identification X-vector, LDA & non-voice detection algorithm – robust to noise environment; A Novel DNN model for a trigger robust to noise and light model for smart speakers.

EDUCATION

- **Politecnico di Torino** | Torino, Italia | Oct 2013 – Oct 2014
  The 2nd Level Specializing Master in Navigation and Related Applications

- **Hanoi University of Science and Technology (HUST)** | Hanoi, VN | Aug 2008 – May 2013
  Engineer of Science in Engineering on Information Technology (**Ranked 1/120 -** Awarded to the top 10% at HUST)

PUBLICATION & CONFERENCE PRESENTATIONS

o   Book Chapters
HT Le-Nguyen, **TT Tran**. "[Charting the Ethical Course: Navigating AI Advancements in Communication Education](#)" In The Role of Generative AI in the Communication Classroom, edited by Sanae Elmoudden, Jason S. Wrench, 214-261. IGI Global, 2024.

HT Le-Nguyen, TT Tran. "[Generative AI in terms of Its ethical problems for both teachers and learners: Striking a balance](#)" In Generative AI in Teaching and Learning, edited by Shalin Hai-Jew, 144-173. IGI Global, 2024.

HT Le-Nguyen, TT Tran. "[Chatbots as Motivational Agents: Chatbots–The Value of a Digital Tool in Pedagogy](#)" In Generative AI in Trends, Applications, and Challenges of Chatbot Technology, edited by Mohammad Amin Kuhail, Bayan Abu Shawar, Rawad Hammad, 137-165. IGI Global, 2023.

o   Papers
Hieu Trong Phung, Anh Tuan Vu, Tung Dinh Nguyen, Lam Thanh Do, Giang Nam Ngo, **Trung Thanh Tran**, Ngoc C. Le, "[MAGNeto: An Efficient Deep Learning Method for the Extractive Tags Summarization Problem](#)"

Truong, M.D, **Tran, T.T,** Nguyen, D.T, La, T.V, Ta, H.T, "*Receiving and decoding of navigation signal of first satellites of Galileo satellite navigation system in Hanoi*", Journal of Vietnamese Science and Technology

Truong, M.D, **Tran, T.T**, Nguyen, D.T, Ta, H.T, "[*Recent results in receiving and decoding*](#) *[signals from the Beidou system](#)*". International Conference on Localization and GNSS, Torino, Italy, 2013. ISSN -2325 – 0747

Tran, T.T, Romero, R., Davis, F, "*Monitoring scintillations effects over Vietnam by means of a GNSS software receiver*", Workshop Communications and Navigations for the Development of Vietnam's Marine Economy 2014

ACHIEVEMENT AND AWARDS
o   Scholar at [Pi School](#) - School of Artificial Intelligence Scholarship | Rome, Italy |Oct 2018
o   Co-runner up at [Notartel](#) AI_Hackathon | Rome, Italy |Oct 2018
o   The United Nations / Italy Long–term Fellowship Award at Politecnico di Torino |Turin, Italy | 2013 – 2014.
o   Summer Scholarship on GNSS, Institute of Positioning, Navigation and Timing of Japan | Tokyo, Japan | 2014
o   Runner up at Research Contest in Information and Communication Technology, HUST | Hanoi, VN| 2013
o   The 1st group in Asia announced First Galileo – Only Positioning on Inside GNSS and GPS World |Apr 2013

MENTORING EXPERIENCE
o   A judge of the Northside of [Hackathon Vietnam AI Grand Challenge](#) 2019 | Hanoi, Vietnam | Jul 2019
o   **Mentoring** Japanese master students from Kyoto Institute Technology and Ritsumeikan University, Japan

REFERENCES

- **Robin Paine -** CEO & Co-founder ClientScan Ltd | Former CTO of London Stock Exchange
  Email: robin@clientscan.co.uk
- **Dr. Sébastien Bratières -** Director of AI, School of AI, Translated, Pi Campus, Rome, Italy.
  Member of Machine Learning group at Cambridge University Engineering Department
  Email: sebastien@picampus-school.com
- **Dr. Ismet Dagli -** Colorado School of Mines
  Email: ismetdagli@mines.edu