

# TIGER YOTSAWAT

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## INDUSTRY EXPERIENCE

### Lead Computer Vision Scientist | Edvent AI (UK) | *Hugging Face, PyTorch, OpenCV*

Sep 2025 – Present

- Researching and developing computer vision models for anomaly detection in surveillance footage.
- Exploring long-tail object detection and video understanding.

### Machine Learning & Data Scientist | TMBThanachart Bank | *NLP, Databricks, Power BI*

Mar 2022 – Jul 2024

- Automated parsing of over 3,000 SQL scripts to map data flow in legacy pipelines, enabling rapid diagnosis of data issues.
- Employed natural language processing (NLP) techniques such as tokenisation, N-grams, and named entity recognition to classify customer complaints, improving call centre efficiency.
- Created a personalised mutual funds monitoring dashboard on Power BI, widely adopted by sales staff across the country and nominated for internal awards.
- Engineered features using insights gained from analysis of bad actor behaviours, resulting in improved detection rules and a twofold boost in detection model precision/recall.
- Led IDE training sessions and introduced a Git workflow, raising team coding standards and collaboration.

### Full-Stack Developer | Ankamen Silver | *Typescript, Figma, AWS, Cloud*

Jan 2021 – Feb 2022

- Built a scalable ERP web app with Figma, Next.js, and MongoDB for managing orders, invoicing, and customer data.
- Managed domain name, SSL certificate, and deployment on AWS S3, Route 53, and CloudFront.

## RESEARCH PROJECTS

### Multiple Object Tracking in Egocentric Videos | University College London | *PyTorch, OpenCV, VLM*

- Developed robust tracking of objects in egocentric videos, grounded in intuitive physics and 3D geometry, utilising semantic features beyond visual appearance for re-identification.
- Utilised vision language models to reason about the physical world and guide the tracking process.
- Developed novel metric to evaluate the discriminative power of tracking cues used in the tracking-by-detection paradigm.

### Perfect Prompt: Systematic LLM Benchmarking | *Docker, Typescript, NextJS, MongoDB, LLM*

- Developing a full-stack benchmarking platform for evaluating LLMs, enabling systematic comparison across OpenAI, DeepSeek, Mistral, and Claude.
- Solutions on the market such as Amazon Bedrock or Azure AI Studio either have high cost, steep learning curve, or lack of multi-provider support.

### Innovation Engine: AI-Driven Creativity | University College London | *PyTorch, LLM*

- Developed a generative AI system that applies open-ended evolution algorithm to create novel artworks, with the ultimate aim of automating the human creative process in domains such as art, game design, and scientific research.
- Used Llama-based models to predict aesthetic interestingness in procedurally generated images, maintaining quality and diversity through dynamically evolving MAP-Elites.

### Pocket Travel: AI Trip Planner | Mistral AI London Hackathon, 2024 | *LLM, NextJS, FastAPI, SERPApi*

- Developed a personalised travel itinerary generator using Mistral AI LLM.
- Scraped top local attractions and restaurants from Google through SERPApi, using the LLM as a decision-making engine to review ratings, incorporate user preferences, and plan timing to visit each location based on opening hours.
- Built a human-in-the-loop workflow to allow users to selectively edit AI-generated itineraries, improving user engagement.

## EDUCATION

### University College London | MSc Data Science & Machine Learning

Sep 2024 – Sep 2025

- 1st, Module highlights: Machine Vision, Statistical Natural Language Processing, Bayesian Deep Learning, Bioinformatics, Open-Endedness & General Intelligence, Supervised Learning, Applied Machine Learning

### University of Cambridge | MA, MSci, BA Hons Natural Sciences (Physics)

Oct 2016 – Jun 2020

- Module highlights: Advanced Statistical Mechanics, Quantum Information, Particle Physics, Relativistic Astrophysics
- Scholarship: Cambridge Thai Foundation and Stephen Fleet Memorial Scholarship

## TECHNICAL SKILLS

**Machine Learning:** Prompt Engineering, PyTorch, OpenCV, Contrastive Learning

**Natural Language Processing:** Hugging Face Transformers, Attention Mechanisms, Named Entity Recognition

**Data Science:** Power BI, Tableau, scikit-learn, Databricks

**Software Engineering:** Docker, Git, Next.js, FastAPI, MongoDB, REST APIs

**Cloud:** AWS CloudFront, AWS Route 53, AWS S3, Heroku