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OBJECTIVE & INTEREST

Fresh from completing the intensive Super AI Engineer Season 5 training camp, I'm excited to apply my skills in real-world AI applications and continue advancing my expertise. My core interest lies in natural language processing, particularly in building intelligent systems using large language models (LLMs) and agentic workflows. I'm seeking a challenging internship as an AI Engineer or in search-related innovation. With a strong background in physics, I'm eager to help organizations develop data-driven strategies and technologies.

EDUCATION

Chulalongkorn University Bachelor of Science in Physics, Senior student **2021-2025**

Fundamental Relevant Coursework: Calculus I, I and III, Mathematics for Physicists I and II, Introduction to Computational Physics, Statistical Physics, Quantum mechanics I and II, Density Functional Theory (DFT).

EXPERIANCE

Super AI Engineer Season 5 (SuperAISS5) Program **Jan 2025 – Jun 2025**

Level 2:

- Participated in onsite training covering deep technical and industrial topics including RAG, OOP & PyTorch, Linux, Docker, and API development, enhancing readiness for real-world AI deployment.
- Competed in 5 intensive onsite team-based Hackathons, showcasing advanced problem-solving and pitching resulting in:
 - The Winner: Sale & Demand Forecasting Challenge by CP Axtra.
 - 2nd Runner-Up: IoT: Coastal Erosion Challenge.
- Participated in three intensive, remote team-based hackathons, showcasing adaptability, teamwork, and problem-solving under pressure:
 - Honorable Mention (4th Place): Liver Fibrosis Severity Prediction Challenge.
 - Honorable Mention (4th Place): Bias Correction GSMAp Challenge.
 - 1st Runner-Up: Cognitive Profiling Prediction (Action Recognition) Challenge.

Level 1:

- Completed comprehensive coursework across core AI/ML domains, covering data science, machine learning, deep learning, transformers, computer vision, image processing, natural language processing (NLP), and large language models (LLMs).
- Actively joined and completed six individual hackathon challenges, involving hands-on problem-solving and the practical application of theoretical knowledge.

Projects

Density Functional Theory (DFT):

- Simulated condensed matter properties, such as carbon graphite, using Quantum ESPRESSO.

Individual Study I: Basic Concepts in Nonlinear Dynamics and Applications for a Single Neuron

[link to doc](#)

- Explored nonlinear dynamical systems and formulated a mathematical model of a single neuron.

Individual Study II: Modern Hopfield Network and Its Applications

[link to doc](#)

- Studied Hopfield networks, an early neural network model based on the properties of spin glass systems.

Undergraduate Project: Glass, Spin Glass, and Simulations

[link to doc](#)

- Conducted an in-depth study of spin glass models, their theoretical aspect and computational simulations.

Senior Project: Neural Networks Enhanced Spin Glass Model Simulation

[link to doc](#)

- Applied deep learning (NADE) to simulate spin glass systems by learning the Boltzmann distribution. Integrated NADE with MCMC to enhance sampling efficiency and reduce bias.

Hard Skills

- **Mathematics for AI Engineering:** With a solid background in physics and mathematics, I understand and apply key concepts essential to AI engineering.
- **Programming Languages:** Proficient in Python, MATLAB, C, and LaTeX, with experience in scientific computing and algorithms (Runge Kutta, Markov Chain Monte Carlo, etc.).
- **Machine Learning:** proficient skills in PyTorch, and Scikit-Learn, with hands-on experience in training, optimizing, and evaluating deep learning models.
- **Theoretical Depth:** Gained through extensive self-study of core AI/ML and deep learning textbooks, building a strong foundation in algorithms, statistical learning, neural networks, and modern model architecture.

Soft Skills

- **Communication and Collaboration:** Skilled in clearly conveying technical ideas, with a collaborative mindset and openness to giving and receiving constructive feedback.
- **Continuous Learning and Adaptability:** Enthusiastic about exploring new technologies and approaches, with the flexibility to adjust to evolving project needs.
- **Pitching and Presentation:** Confident in delivering clear, engaging presentations and effectively communicating ideas to both technical and non-technical audiences.