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Industry Cooperation

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Exploring the Future of GenAI: Phison Teams Up with DeepMentor and NYCU to Inspire Innovation and Boost Operational Efficiency for Businesses



Nine teams from NYCU, NCKU, and GIGABYTE Technology presented the "aiDAPTIV+ technology solution" in various fields at the AI Forward Forum.

(Photo from Phison Electronics)

Translated by Chance Lai

The trend of Generative Artificial Intelligence (GenAI) is sweeping the globe, with industries of all kinds actively exploring the endless possibilities it brings. To assist Taiwan's industries in keeping pace with the GenAI trend, Phison Electronics collaborates with DeepMentor and conducts industry-academia cooperation with National Yang Ming Chiao Tung University (NYCU). They invite professors and students to jointly develop relevant applications, culminating in the "AI Forward Forum: Applications and Deployment Strategies in the GenAI Era" held on March 15th at NYCU's Chiaotung Campus. This event presented research outcomes and delved deep into future development trends.

Exploring GenAI Development in Taiwan: Industry-Academia Collaboration Explores Business Opportunities



President Chi-Hung Lin of NYCU delivered a speech at the forum. (Photo from Phison Electronics)

Seven Teams from NYCU Explore GenAI Applications in Four Major Dimensions

One aspect involves the application of large-scale language models to test feasibility. The ICCLab team, supervised by Professor Li-Chun Wang, Dean of the College of Electrical and Computer Engineering, utilizes large-scale language models to establish a framework for predicting signal quality, validating it in the application scenario of the Guangfu Campus. Professor Jun-Wei Hsieh from the College of Artificial Intelligence mainly examines the potential of combining visual images with large-scale language models. Associate Professor Ching-Wen Ma from the Institute of Computational Intelligence focuses on exploring the causal inference capability of language generation models.

The second aspect involves using the LLaMa2 model to develop auxiliary systems to enhance work efficiency. For example, a research team supervised by Professor Wai-Chi Fang from the Institute of Electronics has developed a police record generation system based on the model to improve the efficiency of record production. Additionally, the OASIS Lab, led by Professor Hsieh-Chia Chang

At the beginning of the forum, various experts from academia and industry, including NYCU President Chi-hung Lin, NYCU Vice President Yung-Fu Chen, and Li-Chun Wang, Dean of the College of Electrical and Computer Engineering at NYCU, Chia-Shun Ye, Associate Manager at MediaTek, Ying-Yu Lin (Eddie), General Manager at GIGABYTE Technology, Khein-Seng Pua (Meet), CEO of Phison Electronics, and Eric Huang, Deputy General Manager of DIGITIMES, took turns sharing insights into the trends in GenAI development and how Taiwanese industries can seize the opportunities.

President Chi-hung Lin of NYCU stated that AI will become compulsory for all students within the next three years. He emphasized the importance of the university adapting to this trend and preparing early. Consequently, NYCU has been actively promoting industry-academia collaboration in recent years, working hand in hand with the industry to cultivate AI talents in Taiwan with both theoretical knowledge and practical skills.

Meet K.S. Pua, CEO of Phison Electronics, noted that businesses currently face numerous challenges when implementing GenAI. Consequently, they collaborated with DeepMentor Technology to introduce

from the Institute of Electronics, has created the ICLAB virtual assistant system to alleviate the heavy workload of teaching assistants.

The third aspect involves integrating large-scale language models with robot operating systems to develop controllable autonomous patrol robots via voice commands. Guan-Lin Chen, representing the results of the Pervasive Artificial Intelligence Research (PAIR) Labs, stated that they observed the extensive manpower and time required for patrol operations in medical or long-term care institutions. This robot saves human resources and enhances the accuracy and efficiency of patrols.

Fourthly, there is the development of large language models. Professor and Director Yuan-Fu Liao from the Institute of Artificial Intelligence Innovation shared the development process and future prospects of the "Taiwan Hakka Dialect Large Language Model." He mentioned that in the process of developing large language models capable of human-like abilities, resource constraints are encountered. Fortunately, the aiDAPTIV+ solution from Phison Electronics addresses these resource challenges.

This collaboration not only promotes

Phison's exclusive "aiDAPTIV+ technology solution" into DeepMentor's GenAI workstations and server products. This move aims to lower the hardware entry threshold, with hopes of future collaborations with more industry players to overcome platform and software implementation challenges. The ultimate goal is to create comprehensive solutions, export Taiwan's experiences internationally, and usher in another wave of entrepreneurship in Taiwan.

Following the trend observations shared by industry and academic experts, nine teams from NYCU, National Cheng Kung University (NCKU), and GIGABYTE Technology presented their GenAI applications. These teams showcased fruitful research outcomes in various fields, including telecommunications, law enforcement, healthcare, manufacturing, education, and customer service.

exchange between academia and industry but also injects new momentum into the development of GenAI technology in Taiwan. With everyone's collective efforts, it is believed that the GenAI field in Taiwan will see even greater prosperity.



Meet K.S. Pua, CEO of Phison Electronics, stated that aiDAPTIV+ offers each company the opportunity to implement a dedicated enterprise GenAI platform. (Photo from Phison Electronics)

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NYCU NATIONAL
YANG MING CHIAO TUNG
UNIVERSITY

Contact Us



Yangming Campus

📍 Address : No. 155, Sec. 2, Linong St. Beitou Dist., Taipei City 112304, Taiwan [↗](#)

☎ Phone : +886-2-2826-7000

Chiaotung Campus

📍 Address : No. 1001, Daxue Rd. East Dist., Hsinchu City 300093, Taiwan [↗](#)

☎ Phone : +886-3-5712121

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