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Li Guo is an Assistant Professor of Practice in Data Science at NYU Shanghai. Guo's research and technical skills center around data mining and algorithm development. She is experienced in applying machine learning techniques to solve real-world problems.

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Center for Data Science and Artificial Intelligence at NYU Shanghai

Deep Learning and Artificial Intelligence

Based on an algorithmic paradigm called “learning by example,” deep learning is a machine learning technique that teaches computers to do what comes naturally to humans: learn by example. Deep learning is the key technology behind modern artificial intelligence. It uses a hierarchical structure of neural networks to automatically learn and discover features in data. This allows deep learning algorithms to make sense of complex and high-dimensional data, such as images, sounds, and text.

Intelligent Transportation

Most traditional transportation systems struggle with the integration of transportation data and deep learning techniques. This makes it difficult to implement efficient and effective transportation systems. To address this, deep learning can be applied to transportation data to improve the performance of transportation systems. By doing so, we can develop a decision-making platform that can leverage a wide variety of traffic data and artificial intelligence techniques for real-time traffic monitoring and traffic signal optimization.

Data-Driven Humanities

Data-driven humanities involves the study of humanities with new artificial intelligence techniques. Many modern humanities issues, such as understanding and predicting human interaction, require a deep understanding of human behavior and cognition. By combining deep learning with humanities research, we can achieve a new and better understanding of human behavior and cognition.

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EDUCATION & TRAINING

Undergraduate Studies

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Graduate Training

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