

Research Fellow (Computer Science and Engineering)
Nanyang Technological University

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Posted Mar. 4, 2024, set to expire Jul. 4, 2024

Job Title	Research Fellow (Computer Science and Engineering)
Department	School of Computer Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Mar. 4, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Computer Engineering
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Computer-Science-and-Engineering-_R00016375
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Job Description	

The School of Computer Science and Engineering (SCSE) invites applications for the position of Research Fellow.

Key Responsibilities:

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Conduct independent research in the field of knowledge continual transfer and multimodal compositionality based on LLM, including multi-modal compositionality, compositional reasoning with commonsense knowledge, and LLM-based compositionality understanding and reasoning.

- Develop algorithms for continuous knowledge transfer and compositional reasoning to facilitate efficient learning of new tasks.
- Collaborate with a research group member to design and implement algorithms aimed at enhancing machine intelligence through knowledge transfer and compositionality.
- Apply developed algorithms to real-world applications with sparse data
- Stay abreast of the latest research in machine learning, artificial intelligence, and related fields to incorporate new techniques into algorithm development efforts.
- Help supervise PhD, master and undergraduate students.

Job Requirements:

- PhD degree in computer science, software engineering, mathematics, or a related field.
- Strong background in multimodal learning, natural language processing, domain adaptation, and knowledge graph, particularly in algorithm development and implementation.
- Familiarity with knowledge transfer techniques and compositionality in machine learning is highly desirable.
- Good publication track record is a must.
- Proficiency in programming languages such as Python, and experience with machine learning

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libraries (e.g., TensorFlow, PyTorch).

- Excellent problem-solving skills and ability to work independently as well as part of a team.
- Passion for applying machine learning algorithms to real-world problems, particularly in domains with limited data such as drug discovery.
- Effective communication skills and ability to convey complex technical concepts to both technical and non-technical stakeholders.

We regret that only shortlisted candidates will be notified.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore