Research Fellow/Engineer (DS)
Singapore Institute of Technology

Job Title	Research Fellow/Engineer (DS)
Department	Infocomm Technology
Institution	Singapore Institute of Technology
	Singapore, , Singapore
Date Posted	Aug. 26, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Electrical and/or Electronics
	Computer Science
Job Website	https://careers.singaporetech.edu.sg/cw/en/job/498753/research-fellowengineer-ds
Apply By Email	
Job Description	

Research Fellow/Engineer (DS)

Job no: 498753
Department: Infocomm Technology
Contract type: Contract
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As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our

research staff will have the opportunity to be equipped with applied research skill sets that are relevant to industry demands while working on research projects in SIT.

The project is an oral language proficiency evaluation on primary students. Specifically, the project is to provide an automatic interface to help primary students practice and improve in their mother tongue learning.

The primary responsibility of this role is to contribute to the delivery of an interactive multilingual language learning system. The role will be part of the research and development team to implement an automatic speech evaluation application that promotes mother tongue learning for students.

Candidates should have work experience in speech recognition and language learning, and a good knowledge of general machine learning, especially neural networks. Candidates with work experience in speech recognition and language learning will be advantageous, however training will be provided.

Key Responsibilities

- Participate in and manage the research project with Principal Investigator (PI), Co-PI and the research team members to ensure all project deliverables are met.
- Undertake these responsibilities in the project:
    1. Help in data collection.
    2. Data preprocessing
    3. Object Segmentation
    4. Image to text
    5. Text Summarization
    6. Question and Answering Tasks
    7. Machine learning model deployment

- Training will be provided.

Job Requirements

- Good command of programming in any programming languages.
- Degree in EE, CS or related areas, preferably with good knowledge in speech recognition, natural language processing
- Good understanding and application experience of machine learning algorithms
- Familiar with speech decoding algorithms under the end-to-end framework will be advantageous.

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- Familiar with one or more of the open-source tools such as Kaldi, Tensorflow, Pytorch will be advantageous.
- Experience in image processing, opencv, multimodel large language models, image to text models, speech processing and natural language processing or other related algorithms will be advantageous.

Key Competencies

- Good communication skills, a team player.
- Good programming knowledge.
- Passion to work and learn independently.
- Ability to think what is best for the project, and to act upon it.
- Possess strong analytical and critical thinking skills.
- Show strong initiative and take ownership of work.

Apply now
Advertised: 26 Aug 2024 Singapore Standard Time
Applications close: 31 Dec 2024 Singapore Standard Time

Contact Information

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

Contact

Singapore