**OneConnect Financial EDB-IPP Programme** is looking for a [data scientist](http://www.oneconnectft.com.sg/) to join our research and development team. We use large internal and external datasets to build AI solutions for financial services institutions that can dramatically improve customer service efficiency and quality.

The ideal candidate will have a strong background in developing NLP systems, a strong knowledge of machine learning and deep learning, and have experience working with massive amounts of data. Knowledge in Cyber Security and Software testing is a plus due to the nature of the project.

Supported under EDB’s Industrial Postgraduate Program (IPP) scheme, successful candidates will also receive full financial support at the Singapore University of Technology and Design (SUTD) together with attractive monthly salary. The IPP is a full-time master or doctoral programme which leads to an award of Doctor of Philosophy (PhD) after four years of study and research.

At OneConnect, we've worked hard to create a culture that will challenge, excite, and support your professional development. With frequent team events, extensive mentoring and training, and collaboration opportunities you'll instantly become part of the well-respected sourced family. Providing a strong work/life balance is one of our core values, and we are committed to creating an inclusive workplace with flexible working arrangements.

We welcome discussion about how this role could be flexible for you.

**Note:**

* Applicants must be either Singaporean or Singapore PR
* Selected candidate(s) will receive an attractive remuneration package (5000 SGD per month with CPF contribution), and in SUTD, selected candidate(s) will be hosted under the ASSET Research Group (<https://asset-group.github.io/>).

**Research Topic:**

Cross-cutting area of Cyber Security, Machine Learning and Software Engineering.

**Description of Research Topic:**

Are you interested in researching the cross-cutting area of Cyber Security, Machine Learning (ML) and Software Engineering? We invite applications in this area under the guidance of A/P Sudipta Chattopadhyay at SUTD and OneConnect Financial Technology, Singapore. The project will run for four years leading to a PhD degree from the Singapore University of Technology and Design upon successful completion of the PhD requirement imposed by SUTD. The candidate will also hold a position of Data Scientist at OneConnect Financial throughout the project.

In this PhD project, we will design and develop technologies to systematically check arbitrary ML systems for potential safety and security threats. We will answer questions like whether an ML system can be fooled through adversarial inputs, whether it can be poisoned with backdoors and whether the usage of ML will amplify the bias in decision making (e.g. social discrimination) in the next generation. We will then develop a set of technologies to protect ML systems from such safety and security threats. At a broader scale, our innovation in this project will potentially disrupt the standard software development process of ML systems and highlight clear guidelines in productionization of safe and secure ML systems.

**Interested party please contact:** Assistant Professor Sudipta sudipta\_chattopadhyay@sutd.edu.sg