

TECHNOLOGY & ENGINEERING SERIES

Seminar: Introduction to Data Science Infrastructure



As organisations embark on their data science and machine learning journey, IT is required to adapt, engineer and provide a highly flexible and scalable environment to meet this need. Traditional and legacy IT infrastructures cannot cope with the demand of big data, data science and machine learning workloads.

This seminar focuses on these key concepts required to architect, acquire, setup and manage such an infrastructure, in particular, with a focus on ensuring the data science and machine learning model, outcome and workflow is **reproducible**.

DATE

14 August 2017 (full)

31 August 2017 (full)

6 September 2017 (full)

DURATION

1 Day; 9.00am to 5.00pm

FEE

S\$310.30 (includes GST)

**Registration will close 5
working days prior to seminar
commencement date**

REGISTER NOW!

SEMINAR OUTLINE

- ◆ Overview of big data, machine learning, data science and artificial intelligence
- ◆ The data science and machine learning stack and process
- ◆ The data science team
- ◆ Data analytics infrastructure and tools supporting common use cases
- ◆ Data models deployment best practices
- ◆ Reproducible data science requirements and setup
- ◆ Reproducible workflow
- ◆ Demo of setting up a reproducible data science environment and workflow.

PRE-REQUISITES

Familiar with IT infrastructure services.

WHO SHOULD ATTEND

IT managers and engineers and devops professionals who are building or supporting data science and machine learning teams in their organisation; support services professionals working with technical teams.



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KEY BENEFITS

At the end of the programme, you would be able to:

- ◆ Understand the data science and machine learning end-to-end workflow
- ◆ Understand the key data science and machine learning software used
- ◆ Understand the key infrastructure tools and components required to support the organisation
- ◆ Understand how to setup a simple reproducible workflow in the Cloud

ABOUT THE SPEAKERS

Mr. Laurence Liew is the Director for AI Industry Innovation at AI.SG, a \$150M national effort to accelerate the adoption and growth of AI technology in the Singapore ecosystem. A technopreneur, Laurence have had several successful exits, the latest being Revolution Analytics where he was the General Manager for Asia Pacific. He was responsible for Revolution's business in Asia and its Centre of Excellence for Analytics in Singapore in partnership with the Infocomm Development Authority of Singapore (IDA). He also conceptualised and managed Revolution's development team who is responsible for putting Revolution R in the Cloud. Revolution was acquired by Microsoft in 2015. Laurence graduated from National University of Singapore (NUS) with First Class Honours in Engineering, and holds a Masters in Knowledge Engineering from NUS.

Mr. Najib Ninaba is a 17-year veteran of technology and startups, particularly, in high performance computing, big data and cloud with almost a singular focus on Free and Opensource Software (FOSS) throughout the years since 1999. During his career, Najib has led the development for high-performance cluster (HPC) infrastructures and worked with leaders in the HPC space such as Intel, Quadrics, and Myrinet. He led the development of the open source software, Project Kusu at Platform Computing, which became the original base for the IBM Platform Cluster Manager solution. At Revolution Analytics, he designed and developed RevoCloudR, a complete self-service provisioning service-as-a-software portal that deploys Revolution R Analytics stack including Cloudera Hadoop on Amazon Web Services and OpenStack and led the integration solution projects with partners such as Cloudera, IBM Netezza and Intel. He became the first external contributor/commmitter outside of the San Diego Supercomputer Center/National Partnership for Advanced Computational Infrastructure (SDSC/NPACI) ROCKS core team and fellow collaborator for NPACI Rocks Clustering Toolkit.



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