

## Data Analytics Committee

The Committee's role is to raise awareness on analytics skills that will be in demand in the future and share knowledge on applications of analytical practices and data technologies among SAS members and practice committees.

The Committee has three sub-committees/ task forces:

1) Education Sub-Committee - Help members to upgrade their analytical/programming skills by way of conducting machine learning courses, workshops, sharing relevant webinars, online courses and research papers.

We have conducted two series of Machine Learning with Python – Introductory Course Series (5 evening sessions).

Scope: Data science methodology, Introduction to Python (Language/coding/libraries), Data manipulation/visualization, Exploratory data analysis , Families of machine learning , Practical case study (predict Titanic survivors) with pro-con of different machine learning.

Our talented Teacher: Karthikan Selvaraj, Data Scientist at Aviva Quantum

See the feedback of 4 participants:

<https://docs.google.com/document/d/1fBdkFzv9GXYqEtdzDT475WKhlcO07DQOEwOCTJeSKE0/edit>

and a highly liked LinkedIn Post:

<https://www.linkedin.com/feed/update/urn:li:activity:6450287761764208640/>

Following the success of the first two series, another one will take place in April 2019.

Pictures of our talented 32 participants:





2) Project/Kaggle/Publications Sub-Committee - Provide opportunities for members to gain practical experience in advanced predictive modelling techniques and data analytics.

In 2018, the project team of DAC started on a few projects with the aim of:

- a) building analytics use case for publication and promotion of actuaries' analytics skillset
- b) exploring new analytics technique and putting learning into practice. For example, the team got together in Q4 2018 to participate in a live Kaggle competition that studied an online merchant's sales conversion using its Google Analytics data.

Also, the team is looking into leveraging the LTA public data to study the effect of environmental variables in affecting road incidents.

Contact [twchyin@yahoo.com](mailto:twchyin@yahoo.com) or [frederic.boulliung@partnerre.com](mailto:frederic.boulliung@partnerre.com) if you are interested to join this sub-committee, basics knowledge in R or Python + machine learning is needed; for instance participants to our Machine Learning courses that we provide is sufficient.

3) Networking/Conference taskforce - Network with institutions, other actuarial societies, academia and corporate innovation labs etc. with the objective of gaining access to relevant speakers, teachers, volunteers and experts who can support our Committee to achieve its objectives and help other SAS committees with their initiatives relevant to analytics.

Key achievements in 2018:

- provided several speakers to SAS afternoon forums
- helped MAS to organize a meeting (Data Analytics Circle) with a dozen of head of analytics Labs in our Industry
- engaging with SMU Professor regarding a presentation for their Students
- engaging with several similar committees of other Society Worldwide
- published an article in "the Actuary" magazine of UK actuarial profession  
<http://www.theactuary.com/news/2018/06/learn-how-to-be-an-actuary-of-the-fifth-kind/>

Frederic Boulliung, Chairman  
Saliya Jinadasa, Deputy Chair  
Data Analytics Committee

Committee webpage: [http://www.actuaries.org.sg/?q=big\\_data](http://www.actuaries.org.sg/?q=big_data)