



Institute
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Data Science Seminar - Usage of data science approach

Asif John

12 March 2020



Agenda

- **Introduction**
- **Data Strategy**
- **General Insurance**
 - **Pricing**
 - **Reserving**
 - **Capital**
 - **Other**
- **Life/Health Insurance**
 - **Pricing**
 - **Reserving**
 - **Capital**
 - **Other**
- **Data Engineering for Insurance**
- **General Insurance InsurTech**
 - **IoT (Internet of Things)**
 - **Big Brother**
 - **Use of AI/ML/RPA/External data/platform**
 - **Insuring the emerging risk landscape**
- **Ethics & Regulations**
- **Data Science Certificate**



Introduction

- The aim of this seminar is to showcase the development and awareness within the IFoA and the insurance landscape on data science.
- This one day focuses specifically within the domain of data science in applications in insurance/reinsurance covering Life, Non-Life and InsurTech areas.
- We will be covering an overview approach across the different sectors on how data science is an integral part of companies' and the education standards i.e. IFoA DNA.



Acknowledgements

Special thanks to the sponsors



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Topic	Description	Speakers	Time/Slot
Introduction	Asif John (Chair) – ARGenesis Special guest – John Taylor, IFoA President	Asif John John Taylor	9.00 - 9:10
Data Strategy	Data Culture, Data Management & Data Risks	Valerie Du Preez Rodwel Mupambirei	9:10 - 9:40
Data Engineering	<ul style="list-style-type: none"> Data Engineering for Insurance 	Asif John & Shailendra Tyagi	9:40 -10:10
General Insurance	<ul style="list-style-type: none"> Pricing 	Ed Plowman	10:10 -10:40
	<ul style="list-style-type: none"> Making machine learning techniques interpretable. 	Xavier Maréchal	10:40 -11:10
	<ul style="list-style-type: none"> Data Visualisation 	Małgorzata Śmietanka	11:10 -11:40
Refreshments (10mins)			11:40 -11.50
Life/Health insurance	<ul style="list-style-type: none"> Pricing 	Declan Whiteford/ Eamon Comerford	11:50 -12:20
	<ul style="list-style-type: none"> Reserving 	Will Mirams	12:20 -12:50
	<ul style="list-style-type: none"> Capital 	Dawid Kopczyk	12:50 -13:20
Lunch (45mins)			13:20 -14:05
Platform Tool	<ul style="list-style-type: none"> Enterprise Machine Learning Pipeline 	John Ng	14:05 -15:05



Data Science – Schedule

Topic	Description	Speaker	Time/Slot
GI/Life InsurTech	<ul style="list-style-type: none"> What is InsurTech 	Ed Plowman	15:05 -15:15
	<ul style="list-style-type: none"> IoT – Practical applications of IoT in Life Reserving 	Dario Flood & Ed Bujok-Stone	15:15 -15:45
	<ul style="list-style-type: none"> ‘Big Brother’ tech - Drones, cameras, image processing, voice analytics with particular focus on prevention and mitigation of loss 	Cherry Chan, Sajjad Meghjee & Hugo Clugston	15:45 -16:15
	Refreshments (10mins)		16:15-16:25
GI/Life InsurTech	<ul style="list-style-type: none"> Use of AI/ML/RPA/External data/platform integration to simplify, automate and enhance underwriting, claims and other processes 	Irfan Akhtar & Taahira Hussain	16:25 -16:55
	<ul style="list-style-type: none"> Insuring the emerging risk landscape - parametric, blockchain and other technology enablers of new products for new risks 	Nigel Carpenter	16:55 -17:25
Ethics & Regulations	<ul style="list-style-type: none"> Professionalism, regulation and ethics 	Matthew Byrne	17:25 -17:40
Data Science Certificate	<ul style="list-style-type: none"> Overview of Data Science Programme 	Melanie Zhang & Colin Thores	17:40 -17:50
	Acknowledgement	John Taylor	17:50 -18:00
	Drinks reception		18:00



Contact



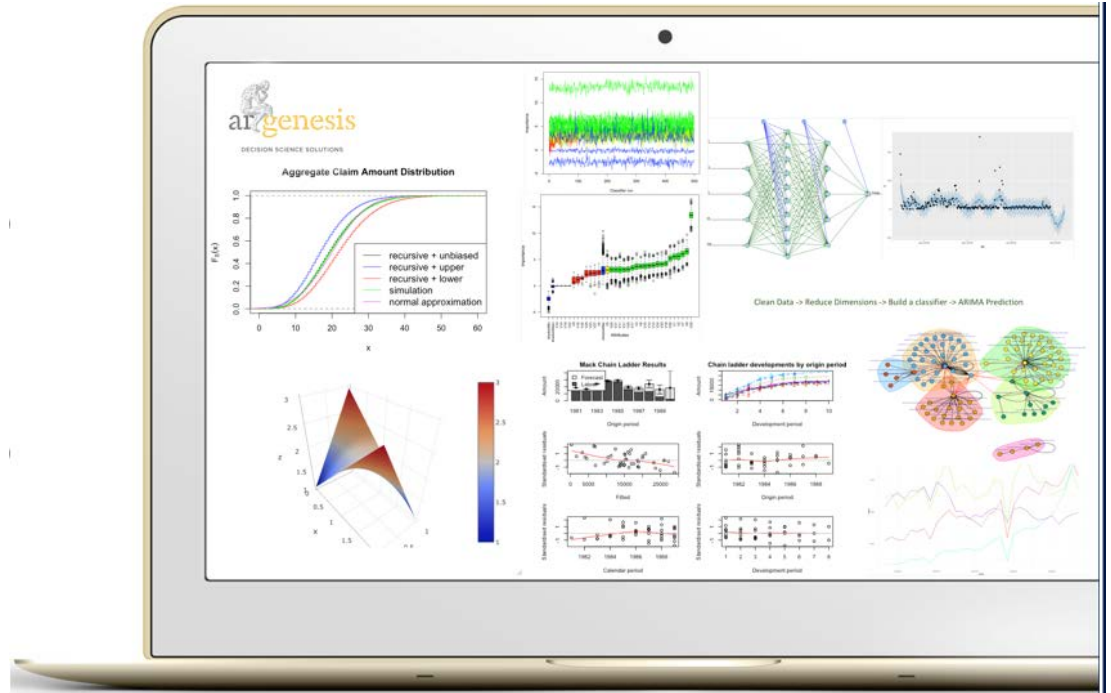
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Questions

Comments

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