

The IFoA Conference 2022

22-23 June - etc.venues, 133 Houndsditch, London



Al and Automation in Life & Health Working Party

23th June 2022

Meet the working party

Established in 2019

- Chair: Atreyee Bhattacharyya and Deputy Chair: Peter Murphy
- c. 15 working party members with a wide range of experience and expertise
 - Balint Bone, David Burston, Ronald Richman, Irfan Akhtar, Reza Hekmat, Dawid Kopczyk, Kanishka Jindal, Garima Gupta and others



Aims of the working party

Raise
awareness of
AI &
Automation
techniques

Review current uses In life & health insurance

Provide educational resource for actuaries

Investigate potential areas of future uses



What have we produced so far

Application of Al & Automation techniques in life and health insurance



Paper published

Available on IFoA's working party webpage

Presented at EAA actuarial conference in 2020

Presented at Digital Actuary Virtual Summit in 2020



What have we produced so far

Application of AI & automation techniques in life and health insurance

Definitions

Working party's definition of AI

Applications of AI in life & health insurance

Mortality modelling

Personalised pricing

Predictive underwriting

Reserve approximation

Applications of Automation in life & health insurance

Increased demand

 Increased regulatory requirement, cost pressure, increased availability of storage and computing power, drive to reduce model risk etc.

Applications in

 Regulatory reporting, daily solvency monitoring, governance and compliance, automated data processing and manipulation etc. Ethical and professional considerations

Pricing fairness

Data privacy

Explainable Al

Oversight & standards



What have we produced so far

EHR Data Analytics
-Opportunities & Challenges



Presented at EAA actuarial conference in 2021

Published in the Actuary magazine in Feb 2022 edition

Survey on current uses of AI & Automation techniques among UK actuaries



Findings to be published in the Actuary magazine (online edition)

Short article on challenges of using AI in capital management and ALM



Published as a LinkedIn blog post



Where to from here

- Upcoming article in the Actuary magazine on findings of the survey
- Upcoming article in the Actuary magazine on use of AI in predictive underwriting
- Creating educational and coding material for actuarial use (contingent on availability of members and resources)



Questions

Comments

Please feel free to reach out at <u>Atreyee.bhattacharyya@willistowerswatson.com</u> or <u>peter.murphy@royallondon.com</u>

