This proposal is being submitted by:	An individual contributor - not on behalf of a SOA section or community
This session is being submitted for consideration for:	Either in-person or virtual event (i.e. no preference)
The preferred length of this session is:	75 minutes
Session Title:	Object-Oriented Programming for Actuarial Modeling
Session Description:	The proposed session titled "Object-Oriented Programming for Actuarial Modeling" draws inspiration from a blend of academic insights gained during my LTAM class in undergraduate studies and years of professional experience as a data scientist. Throughout my career, I have extensively leveraged object-oriented programming (OOP) principles to develop sophisticated data products that effectively handle complex datasets. This session aims to bridge the gap between traditional actuarial modeling techniques and modern data science tools by exploring novel applications of OOP concepts in actuarial modeling. The session will delve into how OOP can revolutionize actuarial modeling practices, offering attendees a unique perspective on integrating OOP principles into their workflows. Drawing from real-world examples and case studies, I will showcase how OOP facilitates the creation of modular, reusable, and scalable actuarial models. By incorporating elements such as classes, objects, and inheritance, participants will learn how to streamline their modeling processes, enhance code maintainability, and foster collaboration within actuarial teams. The session will be interactive, encouraging participants to share their experiences and insights on applying OOP in actuarial modeling. Through collaborative discussions and hands-on exercises, attendees will gain practical knowledge and actionable strategies for implementing OOP techniques in their own actuarial projects. By the end of the session, participants will have a deeper understanding of how OOP can be harnessed to unlock new possibilities in actuarial modeling, bridging the gap between academic theory and real-world applications.
Please choose 1-2 tracks that best match the topic of your proposal:	Emerging Topics: Machine Learning, Artificial Intelligence (AI), Big Data, Modeling, Technology, Predictive Analytics and Futurism, Climate Risk

In one to three words, describe the high-level subject matter of the session.

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Skills-based Learning	Data Science, Data Analysis and Predictive Analytics
Primary Competency Area:	Technical Skills & Analytical Problem Solving
Proposed Session Format	Collaboration Station (Case study/ Workshop)
Audience Level of Experience:	All levels of experience
Country Relevance:	Non-Nation Specific
Topic(s):	Predictive Analytics (T_PA) Technology & Applications (T_TA)
Keywords:	Data Science; Object-Oriented Programming; Algorithms
I and all presenters agree to meet all established deadlines if the proposal is selected.	I agree

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