

Machine Learning: Now and in the Future

Renaud Million | Co-founder & CEO | SPIXII

Agenda

When it all started

Insurance chatbots

Machine learning applications







Introduction

10 years insurance industry

Engineer with MSc Operational Research

Non-life actuarial training with EY London office and not yet qualified!





If you want to increase your success rate, double your failure rate.

Thomas J. Watson



www.thequotes.in



Benefits of failure

Gives clarity

Builds resilience

Offers perspective





Information asymmetry problem

Knowledge gap between insurance buyers and offers

Problem amplified by poor customer experience

- Asymmetry present on the whole insurance value chain:
 - Distribution
 - Customer service
 - Claims





SPIXII

Helping more people get better protected since 2016

Technology company with financial services clients in EMEIA

End-to-end automated insurance services







Why insurance chabots?

Consumers want

Peace of mind and quick

24/7 digital availability

Visibility on what to do

Insurance providers want

Grasp new opportunities

Provide the best customer experience

Efficient operations











You can create a really **bad bot in ten minutes** with a lot of technology today.

It takes months and even years to actually do it the right way.

Jeff McMillan, Chief Analytics & Data Officer, Morgan Stanley







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Why do we use machine learning?

To improve the customer experience of our users via automated decisions

- To extract insights and unexpected correlations within a large amount of data according to strict industry-specific compliance frameworks
 - eg: IDD, GDPR with data anonymisation

- To ensure the availability of SPIXII services
 - eg: auto-scaling groups









New data sources

• **Performance** of the conversations i.e. speed, devices, length of messages

• User's behavior i.e. time spent per question, number of edits per question

Qualitative and quantitative feedback but allow "human learning" first







Identifying patterns by demographics and behavior

Lowest-performing conversation

Lowest-performing section

Lowest-performing question







Acting on patterns

Input for decision making when visualising SPIXII insurance chatbots

Build and improve automated decisions within SPIXII automated services

Conversation live optimization with predefined A/B/.../Z testing







Conclusion

Conversations are used for selling and servicing complex products

Automated conversations provide new structured data sets

 Machine learning gives opportunities to improve services derived from the automated conversations





Questions

Comments

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Thank you

Renaud Million | SPIXII renaud.million@spixii.com

Zurich UK claims chatbot demo video



