



# Ravindra Siwach

Senior Actuary,  
Data Scientist, and  
Project Manager

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- ravindrasiwach

## Hard Skills

### Project Management

- Agile
- Scrum
- Kanban
- Stakeholder management
- Strategic planning and organisation

### P&C Pricing and Analytics

- Technical and market pricing
- Leakage and X-subsidy studies
- Lapse and retention modelling
- Competitive and Profitability analysis
- Telematics
- Credibility modelling
- Optimization
- IFRS17
- SolvencyII

### Programming and Pricing tools

- Python
- R
- SQL
- SAS
- git
- Emblem
- Classifier
- Radar
- PowerBI
- Docker

## About Me

An experienced professional with a solid foundation in actuarial methods and data science techniques including machine learning. With over 5 years of project management experience, I have successfully delivered various projects across retail and commercial segments for both motor and non-motor lines of business. I believe in combining actuarial and data science best practices and deliver greater value with each project by automating repetitive tasks and enabling actuaries to spend more time on improving models and generating meaningful and actionable insights.

## Work Experience

- Oct 2022 – Present** **Pricing Actuary** Munich Re (Munich, Germany)
  - Day 1 pricing for SME property and liability products.
- Oct 2018 – Sep 2022** **Senior Actuary and Product Owner** Axa (Cologne, Germany)
  - Project manager and technical lead.
  - Mentoring junior team members.
  - Key projects:
    - Transformation projects to move from SAS, Emblem to AWS, Python to implement ML models for P&C pricing and analytics
    - Python and git training for actuarial teams
    - Pricing models for different business lines
    - Profitability and leakage analysis tool
    - Data pipeline for pricing projects
    - IFRS17 data prep tool for reinsurance & reserving teams
- Apr 2018 – Sep 2018** **Senior Consultant** Deloitte (Cologne, Germany)
  - Technical lead for initial P&C pricing offering development.
  - IFRS17, SolvencyII and reserving research and analysis.
- Apr 2016 – Mar 2018** **Senior Actuary and Data Scientist** Generali (Munich, Germany)
  - Project lead for motor and non-motor price modelling projects.
  - Training and mentoring team members on efficient modelling with Emblem, Classifier, Radar, SAS and R.
  - Key projects:
    - Development of company's first telematics motor insurance.
    - Peril based pricing models for motor and household businesses.
    - Monthly automated profitability and leakage reports in Radar.
    - Underwriting control models for SME liability business.
- Sep 2013 – Apr 2016** **Actuary and Project Manager, Global P&C** Generali (Trieste, Italy)
  - Identifying and managing pricing and analytics projects in group's entities.
  - Developing P&C pricing best practices and guidelines.
  - Training local actuaries on technical pricing using SAS, Emblem, Classifier and Radar etc.
- Feb 2007 – Jul 2009** **Market Research and Business Development** Evalueserve (Gurgaon, India)
- Oct 2004 – Feb 2007** **Senior Business Associate** Vertex (Gurgaon, India)

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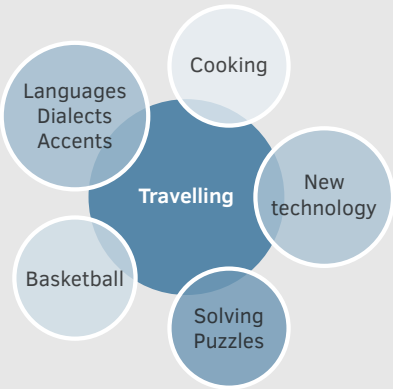
## Soft Skills

- Goal driven
- Detail oriented
- Effective communication
- Resilience
- Collaboration
- Creating new alternatives
- Problem solving

## Languages

 English	● ● ● ● ●
 German	● ● ● ● ●
 Italian	● ● ● ● ●
 Hindi	● ● ● ● ●
 Haryanavi	● ● ● ● ●
 Punjabi	● ● ● ● ●
 Urdu	● ● ● ● ●

## Interests



## Education

2013 – 2014	<b>Master in Insurance &amp; Risk Management</b>	MIB School of Management (Trieste, Italy)
	Graduated with Honours. Grade: 8.89/10.	
2011 – 2012	<b>Institute and Faculty of Actuaries</b>	UK
	CT1, 2, 3 and 7	
2009 – 2012	<b>Bachelors in Statistics and Economics</b>	IIITM University (Sikkim, India)
	First Division	
2009	<b>Society of Actuaries</b>	USA
	Exam P - Probability, Grade 9/10	

### Other courses and certifications

2019	<b>Axa</b>	Cologne, Germany
	Agile product owner training with Scrum and Kanban.	
2018	<b>Deloitte</b>	France and Germany
	IFRS17 bootcamp. SAS institute training for IFRS17 software. Process mining with Celonis. (Training and Hackathon)	
2013 – 2016	<b>Generali Academy</b>	Trieste, Italy
	Towers Watson pricing software training Statistical modelling in R Health Insurance - Product, Pricing and Reserving	
Ongoing	<b>Other courses</b>	Online
	Online courses on Coursera, edX and Youtube etc. on Programming, R, Python, Julia, Machine Learning and Data Science topics.	

## Volunteer Work

Caritas	Assisting immigrant children with English and Maths schoolwork and providing exam preparation support.
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## Awards & Achievements

2008	Employee Performance Award at Evalueserve.
2002	Government scholarship recipient for being amongst the top 0.1% scorers in India in Social Studies(98%) and Science(99%)
2001	School top scorer at National Mathematics Talent Competitions.
2001	Member of school and state Basketball teams.