Ravindra Siwach

Senior Actuary,
Data Scientist, and
Project Manager

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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

I am an experienced professional with a solid foundation in actuarial methods and data science techniques including machine learning. With an extensive project management experience, I have successfully led and delivered various projects across retail and commercial segments for both motor and non-motor lines of business while managing interdisciplinary teams of actuaries and data scientists. I believe in combining actuarial and data science best practices and delivering for the company 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, Digital Partners   Munich Re (Munich, Germany)
- Day 1 pricing for SME property and liability products for InsurTechs.
- Actuarial due diligence for acquisition of new portifolios.

Oct 2018 – Sep 2022

Senior Actuary and Product Owner   Axa (Cologne, Germany)
- Project manager and technical lead.
- Training and mentoring actuaries and data scientists.
- 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)

Ravindra Siwach

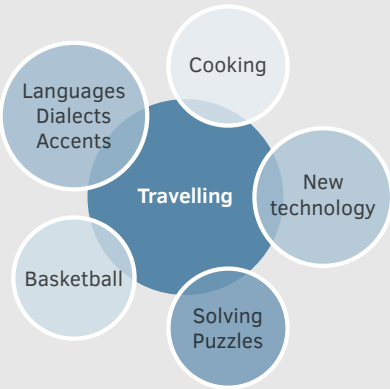Senior Actuary,
Data Scientist, and
Project Manager

Soft Skills

Goal driven   Detail oriented

Effective communication

Resilience   Collaboration

Creating new alternatives

Problem solving

Languages

Language		
🇬🇧 English	● ● ● ● ●
🇩🇪 German	● ● ● ● ○
🇮🇹 Italian	● ● ● ● ○
🇮🇳 Hindi	● ● ● ● ●
🇮🇳 Haryanavi	● ● ● ● ●
🇮🇳 Punjabi	● ● ● ● ○
🇮🇳 Urdu	● ● ● ○ ○

Interests

Cooking · Languages Dialects Accents · **Travelling** · New technology · Basketball · Solving Puzzles

Education

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

Other courses and certifications

2019	**Axa**	Cologne, Germany
	Agile product owner training with Scrum and Kanban.	
2018	**Deloitte**	France and Germany
	IFRS17 bootcamp. SAS institute training for IFRS17 software. Process mining with Celonis. (Training and Hackathon)	
2013 – 2016	**Generali Academy**	Trieste, Italy
	Towers Watson pricing software training Statistical modelling in R Health Insurance - Product, Pricing and Reserving	
Ongoing	**Other courses**	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.

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.