



Ravindra Siwach

Project Manager,
Senior Actuary,
Data Scientist

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Technical Skills —

Project Management

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

Actuarial Analytics & Software

- Technical & Market Pricing
- Leakage (TP/AP)
- X-Subsidy
- Lapse & Retention Analysis
- Competitive Benchmarking
- Profitability Analysis
- Telematics
- Credibility Modelling
- Optimization
- Reserving
- Reinsurance
- IFRS17
- SolvencyII
- Emblem
- Classifier
- Radar
- Akur8
- ResQ

Data Science

- Machine Learning
- Web Apps
- Dashboarding
- ETL/ELT
- Python
- R
- SQL
- SAS
- git
- PowerBI
- Docker
- DevOps
- MLOps

Highlights

- Proven leader experienced in managing culturally diverse interdisciplinary teams.
- Effective communication, networking and stakeholder management skills.
- Deep knowledge and experience across personal, commercial and specialty lines.
- Actuarial pricing and data science specialist.

Professional Experience

Vice President, Reinsurance Solutions, SE Asia

Swiss Re

Dec 2023 – Present

Singapore

- Build and deliver analytics solutions for clients in South East Asian markets.
- Project planning and management.
- Design new offerings/propositions to address client needs.
- Coordinating with data team to ensure seamless data API integration.
- Conducting actuarial due diligence for pricing and reserving to support acquisition of new portfolios.

Sr. Actuarial Data Scientist, Great Lakes

Munich RE

Oct 2022 – Nov 2023

Munich, Germany

- Develop data science capability for Great Lakes including data models and strategy for collecting and utilizing data from various internal and external sources.
- Single risk/case pricing and act as data steward for Single Risk business.
- Represent Great Lakes in data related workstreams for transformation projects.
- Develop Pricing, Portfolio monitoring and Competitive benchmarking frameworks to maintain oversight and improve profitability and market share.
- Provide Day1 pricing strategy and product support in absence of historic data for Insurtech/MGA partners to successfully launch SME products in new markets.
- Perform M&A due diligence including review and validation of rates, reserves, underwriting policies and financial projections.
- Support financial planning process for group entities/portfolios.

Project Manager and Senior Actuary

Axa

Oct 2018 – Sep 2022

Cologne, Germany

- Led interdisciplinary teams of actuaries and data scientists for transformation of P&C pricing and analytics landscape, migrating from legacy systems (SAS, WTW) to cloud (AWS) and implementing Python-based ML models.
- Led pricing and analytics projects for improved pricing and portfolio management.
- Engineered test-driven ETL and ML pipelines to improve accuracy and efficiency.
- Trained actuaries on Python and git to improve collaboration and technical skills.
- Developed Python data tool with reinsurance team for accurate IFRS17 reporting.

Senior Consultant

Deloitte

Apr 2018 – Sep 2018

Cologne, Germany

- Led technical development of initial P&C pricing offering.
- Supported IFRS17 implementation for client through edge cases research.
- Developed R tool to analyze and validate actuarial reserves.

Senior Actuary and Data Scientist

Generali

Sep 2013 – Mar 2018

Trieste, Italy & Munich, Germany

- Implemented peril based pricing for P&C products as lead actuary.
- Supported development of company's first telematics cars insurance product in Germany.
- Implemented SME underwriting control model to identify guideline deviations.
- Designed portfolio monitoring framework in Radar to streamline reporting.
- Trained and mentored actuaries on Emblem, Classifier, Radar, SAS and R.
- Developed technical price and portfolio monitoring blueprint for streamlined processes and best practice sharing amongst group entities.
- Liaised with business units to identify training and project requirements.
- Developed VBA/Excel tool to monitor performance of group entities in Europe.
- Reviewed and validated group entities' projections and plans.

Market Research and Business Development Analyst

Evalueserve

Feb 2007 – Jul 2009

Gurugram, India

- Managed/conducted market research analytics & business development projects.

Senior Business Associate

Vertex

Oct 2004 – Feb 2007

Gurugram, 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

- Puzzles
- Modern Tech
- Basketball
- Languages, Dialects and Accents
- Cooking
- Backpacking

Education

Master in Insurance & Risk Management 2013 – 2014 - Graduated with Honours. Grade: 8.89/10.	MIB School of Management Trieste, Italy
Actuarial Exams 2011 – 2012 - CT1, 2, 3 and 7	Institute and Faculty of Actuaries UK
Actuarial Exams 2009 - Exam P - Probability, Grade 9/10	Society of Actuaries USA

Trainings and Coursework

- Agile project management using Scrum and Kanban
- Deloitte University - IFRS17 bootcamp
- SAS institute training for IFRS17 software
- Process mining with Celonis - Training and Hackathon
- Willis Towers Watson pricing suite
- Health Insurance - Product, Pricing and Reserving
- Online courses on Programming in R, Python and Julia as well as on Machine Learning, Data Science and Data Engineering topics.

Volunteering

Caritas	Cologne, Germany
- Assisting immigrant children with English and Maths schoolwork and providing exam preparation support.	

Awards & Achievements

- 2008 - Employee Performance Award at Evalueserve.
- 2002 - 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.