



# 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

### Sr. Actuarial Data Scientist, Great Lakes

Oct 2022 – Present

Munich RE

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

Oct 2018 – Sep 2022

Axa

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

Apr 2018 – Sep 2018

Deloitte

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

Sep 2013 – Mar 2018

Generali

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

Feb 2007 – Jul 2009

Evalueserve

Gurugram, India

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

### Senior Business Associate

Oct 2004 – Feb 2007

Vertex

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.

### Actuarial Exams

2011 – 2012

- CT1, 2, 3 and 7

### Actuarial Exam

2009

- Exam P - Probability, Grade 9/10

**MIB School of Management**

*Trieste, Italy*

**Institute and Faculty of Actuaries**

*UK*

**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.