

# Ravindra Siwach

Project Manager, Senior Actuary, **Data Scientist** 

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ravindra-siwach

ravindrasiwach

# Technical Skills -

**Project Management** 

Agile Scrum Kanban

Stakeholder management

Strategic planning and organisation

**Acturial Analytics & Software** 

Technical & Market Pricing

Leakage (TP/AP) X-Subsidy

Lapse & Retention Analysis

Competitive Benchmarking

**Profitability Analysis Telematics** 

Credibility Modelling Optimization

Reserving Reinsurance IFRS17

Classifier SolvencyII **Emblem** 

Radar Akur8 Res<sub>0</sub>

**Data Science** 

Machine Learning Web Apps Dashboarding Python ETL/ELT SQL SAS PowerBI **DevOps** Docker **MLOps** 

### Summary

Experienced project manager with a proven track record in leading interdisciplinary teams of actuaries and data scientists. Passionate about data and committed to combining actuarial and data science best practices to automate repetitive tasks and empowering teams to generate meaningful and actionable insights from data. Focussed on maximizing value for stakeholder while communicating effectively with technical as well as non-technical stakeholders.

## **Professional Experience**

#### Pricing Actuary, Global Specialty Insurance

Munich RE Munich, Germany

Oct 2022 - Present

- Model competitive Day1 prices for new products/market launch with MGAs.
- Develop products and pricing strategy to increase profitability and market share.
- Conduct portfolio monitoring through leakage and competitive benchmarking.
- Review and validate rates, reseves, financial projections and underwriting policies for M&A actuarial due diligence.
- Coordinate seamless data API integration from partners.

#### **Project Manager and Senior Actuary**

Axa

Oct 2018 - Sep 2022

Cologne, Germany

- Managed interdisciplinary teams of actuaries and data scientists.
- Led 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 leakage 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 analyse and validate actuarial reserves.

#### Senior Actuary and Data Scientist

Generali Munich, Germany

Apr 2016 – Mar 2018

- Implemented peril based pricing for P&C products as lead actuary. - Supported development of company's first telematics cars insurance product.
- 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.

### Actuary and Project Manager, Global P&C

Generali Trieste. Italy

Sep 2013 – Apr 2016

- Developed technical price and portfolio monitoring blueprint for streamlined

- processes and best practice sharing amongst group entities. - Build various pricing, portfolio monitoring and competitive benchmarking models
- to address vulnerabilities and improve portfolio performance.
- 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

Gurugram, India

Gurugram, India

**Evalueserve** 

- Conducted market research, analytics and business development projects.

**Senior Business Associate** 

Vertex

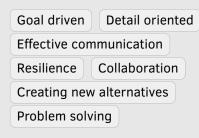
- Customer service.

Oct 2004 - Feb 2007

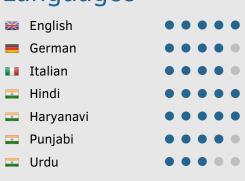
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## Soft Skills -



## Languages



### 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

- CT1, 2, 3 and 7

**Bachelors in Statistics and Economics** 

2009 – 2012

2011 - 2012

- First Division

Actuarial Exam 2009

- Exam P - Probability, Grade 9/10

MIB School of Management

Trieste, Italy

**Institute and Faculty of Actuaries** 

EIILM University Sikkim, India

Society of Actuaries

Cologne, Germany

## **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

- 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.