# Ravindra Siwach

Project Manager,
Senior Actuary,
Data Scientist

- 📞 +49 173 602 4221
- @ ravindra.siwach@gmail.com
- ravindra-siwach
- in 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`

`SolvencyII` `Emblem` `Classifier`

`Radar` `Akur8` `ResQ`

### Data Science

`Machine Learning` `Web Apps`

`Dashboarding` `ETL/ELT` `Python`

`R` `SQL` `SAS` `git` `PowerBI`

`Docker` `DevOps` `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
*Oct 2022 – Present* — *Munich, Germany*
- 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
*Apr 2016 – Mar 2018* — *Munich, Germany*
- 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
*Sep 2013 – Apr 2016* — *Trieste, Italy*
- 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 — Evalueserve
*Feb 2007 – Jul 2009* — *Gurugram, India*
- Conducted market research, analytics and business development projects.

### Senior Business Associate — Vertex
*Oct 2004 – Feb 2007* — *Gurugram, India*
- Customer service.

# Ravindra Siwach

Project Manager,
Senior Actuary,
Data Scientist

## Soft Skills ─────────

Goal driven | Detail oriented
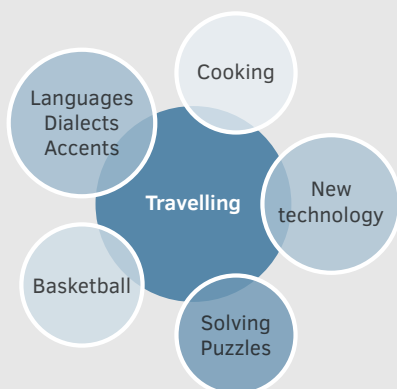
Effective communication

Resilience | Collaboration

Creating new alternatives

Problem solving

## Languages ─────────

🇬🇧 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

| | | |
|---|---|---|
| Present | **Continuous learning** | Online |
| | Online courses on Coursera, edX and Youtube etc. on Programming, R, Python, Julia, Machine Learning, Data Science and Data Engineering topics. | |
| 2019 | **Axa** | Cologne, Germany |
| | Agile Scrum and Kanban Product Owner training. | |
| 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 | |

# Volunteering

| | | |
|---|---|---|
| Present | **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 | 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. |