Ravindra Siwach

Senior Actuary,
Data Scientist, and
Project Manager

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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   DevOps

MLOps   Python   R   SQL   SAS

git   PowerBI   Docker

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
Evalueserve

Feb 2007 – Jul 2009
Gurugram, India

Senior Business Associate
Vertex

Oct 2004 – Feb 2007
Gurugram, India

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Soft Skills

Goal driven   Detail oriented
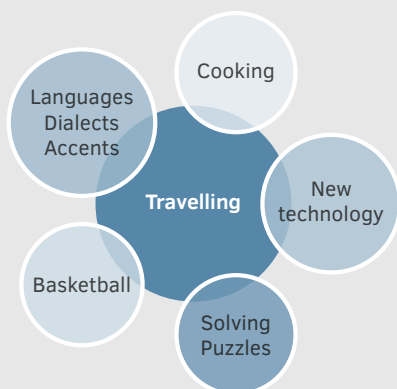
Effective communication

Resilience   Collaboration

Creating new alternatives

Problem solving

Languages

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

Interests

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.