



Ravindra Siwach

Senior Actuary,
Data Scientist, and
Project Manager

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- ravindrasiwach

Skills

Project Management

- Agile
- Scrum
- Kanban
- Stakeholder management
- Strategic planning and organisation
- Training and mentoring
- Time management
- Delegation

P&C Pricing and Analytics

- Technical and market pricing
- Leakage and cross subsidy analysis
- Lapse and retention modelling
- Competitive analysis
- Telematics
- Credibility modelling
- Optimization
- IFRS17
- SolvencyII

Programming and Pricing tools

- Python
- R
- SQL
- SAS
- git
- Emblem
- Classifier
- Radar
- PowerBI
- Docker

About Me

An experienced professional with a solid foundation in actuarial methods and data science techniques including machine learning. With over 5 years of project management experience, I have successfully delivered various projects across retail and commercial segments for both motor and non-motor lines of business while managing mixed teams of actuaries and data scientists as well as actuarial and non-actuarial stakeholders. I believe in combining actuarial and data science best practices and deliver greater value with each project by automating repetitive tasks and enabling actuaries to spend more time on improving models and generating meaningful and actionable insights.

Work Experience

- Oct 2018 – Present** **Senior Actuary and Product Owner** **Axa (Cologne, Germany)**
 - Project planning and organisation including review meetings with different stakeholders to ensure expectations are met and any change in requirements are integrated in project requirements asap.
 - Mentoring and hands-on development with other team members.
 - Key projects:
 - Transformation project for P&C pricing to move from legacy systems (SAS, Excel, Emblem) to cloud using SQL and Python (including Python and git training for actuarial teams).
 - Pricing models for different business lines (SAS, Emblem)
 - Profitability and leakage analysis tool (SQL, Python)
 - Data pipeline for pricing projects (AWS, SQL, Python)
 - IFRS17 data prep tool for reinsurance & reserving teams
- Apr 2018 – Sep 2018** **Senior Consultant** **Deloitte (Cologne, Germany)**
 - Development of an initial P&C pricing offering in Germany.
 - Automated tool to read reserving triangle data and output in tabular form and vice versa in R.
 - Defining IFRS17 test cases in SAS for product testing.
- Apr 2016 – Mar 2018** **Senior Actuary and Data Scientist** **Generali (Munich, Germany)**
 - Project lead for motor and non-motor price modelling projects.
 - Training and mentoring team members on efficient modelling with Emblem, Classifier, Radar, SAS and R.
 - Key projects:
 - Development of company's first telematics motor insurance.
 - Peril based pricing models for motor and household businesses.
 - Monthly automated profitability and leakage reports in Radar.
 - Underwriting control models for SME liability business.
- Sep 2013 – Apr 2016** **Actuary and Project Manager, Global P&C** **Generali (Trieste, Italy)**
 - Identifying and managing pricing and analytics projects in Italy, Germany, Netherlands, Belgium and Czech Republic.
 - Developing P&C pricing best practices and guidelines.
 - Training local actuaries on technical pricing using SAS, Emblem, Classifier and Radar etc.
- Feb 2007 – Jun 2009** **Market Research and Business Development** **Evalueserve (Gurgaon, India)**
 - Managing and conducting market research, analytics and business development projects.

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Soft Skills

Goal driven Detail oriented


Effective communication

Resilience Collaboration

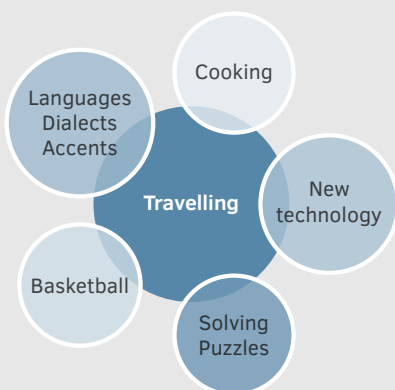
Creating new alternatives

Problem solving

Languages

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 Hindi	● ● ● ● ●
 English	● ● ● ● ●
 Italian	● ● ● ● ●
 German	● ● ● ● ●
 Punjabi	● ● ● ● ●
 Urdu	● ● ● ● ●

Interests



Work Experience

Oct 2004 – Feb 2007 **Senior Business Associate**

- Customer service.

Vertex (Gurgaon, India)

Education

Professional

2011 – 2012 **Institute and Faculty of Actuaries** UK

CT1 - Financial Mathematics
CT2 - Finance and Financial Reporting
CT3 - Probability and Mathematical Statistics
CT7 - Business Economics

2009 **Society of Actuaries** USA

Exam P - Probability, Grade 9/10

Formal

2013 – 2014 **Master in Insurance & Risk Management** MIB School of Management (Trieste, Italy)

Graduated with Honours. Grade: 8.89/10.
Thesis: Risk coherent KPIs for P&C insurance under SolvencyII.

2009 – 2012 **Bachelors in Statistics and Economics** EIILM University (Sikkim, India)

First Division

Other courses and certifications

2019 **Axa** Cologne, Germany

Agile product owner training with Scrum and Kanban.

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

Ongoing **Other courses** Online

Online courses on Coursera, edX and Youtube etc. on Programming, R, Python, Julia, Machine Learning and Data Science topics.

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.