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

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

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   **Munich RE**
Oct 2022 – Present   *Munich, Germany*
- Develop data science capability for Great Lakes including data models and strategy for collecting and utiizing 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   **Axa**
Oct 2018 – Sep 2022   *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   **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 analyze and validate actuarial reserves.

Senior Actuary and Data Scientist   **Generali**
Sep 2013 – Mar 2018   *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   **Evalueserve**
Feb 2007 – Jul 2009   *Gurugram, India*
- Managed/conducted market research analytics & business development projects.

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 ———————

Puzzles   Modern Tech   Basketball

Languages, Dialects and Accents

Cooking   Backpacking

Education

Master in Insurance & Risk Management   **MIB School of Management**
2013 – 2014   *Trieste, Italy*
  - Graduated with Honours. Grade: 8.89/10.

Actuarial Exams   **Institute and Faculty of Actuaries**
2011 – 2012   *UK*
  - CT1, 2, 3 and 7

Actuarial Exams   **Society of Actuaries**
2009   *USA*
  - Exam P - Probability, Grade 9/10

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.