



# Prasanna Bhogale

## Curriculum Vitae

### Summary

I am interested in data science and finance and have strong quantitative and communication skills. I thrive on the challenge of excelling in new fields and cultural settings, and am keen to create impact with machine learning and modelling on complex data sets.

### Experience

- 06.2016–present **Consultant – Data Science and Machine Learning**, KI ANALYTICS, Köln.  
**Predictive pricing for logistics** : Developed predictive models that outperformed conventional pricing model built by industry leading pricing consultancy for an online logistics platform in Germany.  
**Recommendation system** : Developed a simple recommender system to match logistics companies to customers.  
**Data science in the automotive industry** : Helped identify specific business problems (and relevant data sets) suitable for a ML based solution for a German auto major.
- 06.2015–01.2016 **Intern – Financial engineering**, RISKLAB/ALLIANZ GI, Munich.  
**Modelling Private Equity** : Constructed a comprehensive model for PE funds including models for cashflows (capital calls and distributions), management performance and the net asset value.

### Education

- 2010–2016 **PhD**, *Institute for Theoretical Physics*, Universität zu Köln, Germany.  
“Stochastic switching in multistable gene regulatory networks” with Prof. Johannes Berg. (final defence pending)  
Publication - *What makes the lac-pathway switch: identifying the fluctuations that trigger phenotype switching in gene regulatory systems* (clickable link)
- 2009–2010 **MS**, *Perimeter Institute for Theoretical Physics*, University of Waterloo, Canada.  
“Speculations on the emergence of space-time and gravity” with Prof. Lee Smolin
- 2007–2009 **MSc in Photonics**, *Erasmus Mundus Master in Photonics*, Jointly at University of St. Andrews (Scotland), Universiteit Gent and Vrij Universiteit Brussel (Belgium).  
“Design and fabrication of electro-optic modulators in silicon” with Prof. Thomas Krauss
- 2003–2007 **B.Tech, Electronics and Communications**, *National Institute of Technology*, Karnataka, Surathkal, India.
- Tests (2006) GRE - 1600/1600, 6/6. TOEFL - 117/120, Physics GRE - 970/990  
Awards Perimeter Scholars International Fellowship 2009, Erasmus Mundus Fellowship 2007

### Skills

- Key Machine Learning, Analytics, Inference, Stochastic processes, Cell biology, Teaching  
Computing Python, R, h2o, Docker, Spark, FORTRAN, Mathematica, MATLAB, L<sup>A</sup>T<sub>E</sub>X, Excel  
Language I speak fluent English, Hindi, Marathi and basic German  
Interests Classic Sci-Fi, Cricket, Hiking, Badminton, Clarinet, Running

### References

- Prof. Johannes Berg**, *Institute for Theoretical Physics, University of Cologne*.  
berg@thp.uni-koeln.de
- Dr. Colm Nee**, *risklab GmbH (AGI), Munich*.  
Colm.Nee@risklab.com
- Dr. Christian Wiehenkamp**, *Perpetual Investors GmbH, Munich*.  
christian.wiehenkamp@perpetual-management.com