Curriculum Vitae

Title, Family Name, First Name

Dr. Soorali Ganeshamurthy, Balakrishna

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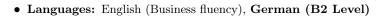
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21.August.1983

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Technical Skills:



- Programming: Strong programming skills in R, Python, Javascript, Matlab, JAVA and LabVIEW.
- Visualization & Reporting: RShiny, Jupyter Notebook, R-Markdown, LATEX and D3.js.
- Interests: Deep Learning, Ensemble learning, Artificial Neural Networks, SVM and Visual analytics.
- Agile & Productivity: SCRUM, JIRA, Confluence, GIT and SVN.
- Skills in web-frontend development (HTML5, CSS, PHP, etc.)

Education Summary:

- Ph.D. Applied Physics -University of Saarland (UDS), SaarbrÃŒken, Germany.
- M.Sc. Theoretical Physics -Kuvempu University, Karnataka, India.
- Pursuing "Deep Learning Specialization" from Coursera

Resume:

I am a Physicist and a Data scientist with a strong educational background in Physics. I have been an active Kaggler, my interests are in finding solutions to complex business challenges through advanced analytics. My skills-set covers advanced mathematical methods, Machine learning, Signal processing, Statistical inference, Bigdata processing, and Visualization. As a data scientist have been working on multiple projects such as Lead conversion, Telematics (Fleet management) and Collection optimization. For many years I have worked as a researcher, in various high-performance research and development environments that are focused on cutting-edge innovation in science and technology.

Work Experiences:

Data Scientist, Daimler Financial Services (DFS), Stuttgart.

11/2016- Current

- Lead Data scientist: Prediction of Lead conversions potential for online leads.
 - Built stacked model prediction models with various machine learning techniques such as Tree - based models Support Vector Machines and Artificial Neural Network.
 - Built a fully functional Shiny Application for our business customer.
 - I have been a part of Scrum environment to deliver innovative results under tight timeline constraints and technical difficulties

• Lead Data Scientist :

Car2GO and Car2Share: Building models for Fleet management, Predictive maintenance and Optimizing resource allocation.

• Supporting Data Scientist :

Customer risk prediction for collection department in South Africa.

• SpringbokView:

Created interactive visualization package in R, based on D3.js. This package consists
of many advanced visualization types applicable to R data frames. Some of the
major visualisation functions includes Parallel coordinates, Association rule mining
and Treemaps.



Postdoctoral Researcher, INM - Leibniz Institut f $\tilde{\mathbf{A}}$ Œr neue Materialien, Saarbrucken, Germany.

07/2015- 12/2015

- Measurement and Data Analysis, Data visualization & Background in optimization problems
- Image processing & Mathematical modeling in Matlab and Python.

PhD student, INM - Leibniz Institut fÃŒr neue Materialien, Saarbrucken, Germany.

07/2011- 06/2015

- Research into nano mechanical properties of graphitic materials
- High resolution imaging with Atomic Force Microscope in Ultra High Vacuum.
- \bullet Image processing & Mathematical modeling in Matlab and Python.
- Research publications in very high ranking journals.

Publications:

Peer-reviewed publications in high ranking journals and cited multiple times.

- 1. Balakrishna, S. G., de Wijn, A. S., & Bennewitz, R. (2014). Preferential sliding directions on graphite. Physical Review B, 89(24), 245440.
- 2. Klemenz, A., Pastewka, L., Balakrishna, S. G., Caron, A., Bennewitz, R., & Moseler, M. (2014). Atomic scale mechanisms of friction reduction and wear protection by graphene. Nano letters, 14(12), 7145-7152.
- 3. Chan, N., Balakrishna, S. G., Klemenz, A., Moseler, M., Egberts, P., & Bennewitz, R. (2017). Contrast in nanoscale friction between rotational domains of graphene on Pt (111). Carbon, 113, 132-138.