

Santhosh Narayanan

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PROFILE

A self-motivated data analyst and programmer with an insatiable intellectual curiosity and the ability to mine hidden gems located within large sets of structured, semi-structured and unstructured data. Able to leverage a heavy dose of mathematics and applied statistics with visualization and a healthy sense of exploration.

Currently a second year PhD candidate in Statistics at University of Warwick.

EDUCATION

Program	Institution	%/CGPA	Completion
MSc	Barcelona Graduate School of Economics Data Science	8.74/10	2016
B Tech	Indian Institute of Technology, Madras Major: Mechanical Engg/Minor: Systems Engg	7.10/10	2012
XII (CBSE)	Maharishi Vidya Mandir, Chennai	92.4%	2008
X (CBSE)	Rajagiri Public School, Kochi	90%	2006

Academic achievements:

- All India Rank of 398 in the Joint Entrance Exam for the IITs out of 4,00,000 applicants in the Year 2008.
 - Qualified for the Indian National Olympiad in Informatics in 2007 and 2008 (Top 250 in India).
 - In Top 8 in the region in National Mathematics Talent Contest conducted by AMTI in 2008 and qualified to the national round, Indian National Math Olympiad.
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CORE COMPETENCIES

Modeling: Design and implement statistical/machine-learning models and cutting edge algorithms utilizing diverse sources of data to derive insights with project experience in domains of oil and gas production, automotive retail and pharmacovigilance for life science clients.

Analytics: Utilize analytical applications like R/Python to identify trends and relationships between different pieces of data, draw appropriate conclusions and translate analytical findings into strategies that drive value.

SKILLS

Software / Products: R, Qlikview, Excel

Development Tools / Languages: SQL, Java, C/C++, Python

EXPERIENCE

Shell Global Solutions International B.V., Netherlands

Data Science Consultant (Part-time)

Mar 2017 – Feb 2018

Aim of this project was to accurately predict future production from oil and gas wells based on past production history, to aid decision making regarding a particular well, taking into account the insight gleaned from other wells in the same area. Empirical methods agnostic to the application domain and methods based on an understanding of the underlying geological or physical processes were employed and evaluated.

Key Responsibilities:

- Performed data cleaning, checks and preparation including handling of missing values, cumulative production checks and outlier detection.
- Designed and implemented a validation workflow to evaluate the developed methods for the multivariate prediction task.

Xenon Automotive India Pvt Ltd, Bangalore, India

Data Scientist

Nov 2014 – May 2015

Part of a team developing large-scale machine learning services and applications on the cloud involving terabytes of telematics data from the cars of customers. Focus was on applying predictive technologies to a wide spectrum of automotive related applications ranging from driving behaviour to predictive diagnostics.

Key Responsibilities:

- Used statistical models and clustering techniques to analyse thousands of vehicle trip data (combination of on-board diagnostic, GPS and accelerometer) to gain insights on the relation between fuel consumption and driving behaviour.
- Developed an Eco-Drive score for drivers based on their pace, calmness, anticipation, smoothness and safety of driving helping users drive better and save money on fuel.

Deloitte Consulting US-India Ltd, Bangalore, India

Associate Research Analyst | ConvergeHealth by Deloitte

August 2012 – Oct 2014

The ConvergeHealth solution provides insights into comparative effectiveness and pharmacovigilance for life science clients using data sourced from a consortium of healthcare providers. The product is an insight-as-a-service dashboard that provides visualization for post-launch surveillance of therapeutic products and enables hypothesis generation for follow-on clinical studies.

Key Responsibilities:

- Developed algorithms in R to implement statistical techniques including propensity score matching, multivariate regression and hierarchical clustering.
- Built machine learning models to predict hospital re-admission Rate, Length of Stay per inpatient-admission, severity of illness risk score, all of which were incorporated as part of the product suite.