

# 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.

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## EDUCATION

| Program    | Institution  | %/CGPA  | Completion |
|------------|--|---------|------------|
| MSc        | Barcelona Graduate School of Economics<br>Data Science                               | 8.74/10 | 2016       |
| B Tech     | Indian Institute of Technology, Madras<br>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.

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## 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.