

## Achyuthuni Sri Harsha

Data Scientist | IIM Bangalore | Mu-Sigma

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## Work Experience

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### Mu-Sigma: Decision Scientist

October 2017 - Present

Project: Walmart Supply chain analytics (impact \$12 Million in a month)

- Technologies used: R, Python, SQL, CPLEX, Google cloud\*
- Collaborated with the technology and business units of Walmart Supply chain and market POC's in the US, Canada, Mexico, Argentina and Chile
- Worked end-to-end from ideation to POC development to production
- Quantify the reasons for under-stock scenarios
  - Quantified the reasons causing understock scenarios using hypothesis testing and machine learning techniques to give directional insights and obtain the high impact factors
- Identify the risk of a supplier to deliver an order in full
  - Built a classification model using boosting to determine the risk of a supplier to deliver a purchase order in full
  - Deployed the solution on cloud and created workflows to predict the risk daily
- Forecasting inbound lead time of vendors
  - Developed a regression model using random forest to predict the inbound lead time of a purchase order
  - Deployed the solution on cloud and created workflows to predict lead time daily
- Optimising inventory at store and warehouse
  - Optimised EOQ and reorder point using an integer programming model
  - Formulated and validated the approach under the Senior Director of Supply chain of Walmart
  - Currently under testing for a sample market

Other projects for Fortune 500 clients:

- Formulated a POC to arrive at clean sheet costing of food products based on NLP and gradient descent. Created charts in Tableau to present the insights
- Built a prototype on time to place a new RFP for generic drugs using KNN classification method
- Developed the front end of an interactive web application for sourcing managers, buyers to make fast-paced informed decisions

Additional responsibilities:

- Mentored three batches of young analysts (5 in one batch) on analytical problem spaces like demand forecasting and customer churn prediction
- Took sessions on hypothesis testing and linear regression to different classes (30 people in a class)
- Served as point of contact for pitching and showcasing Mu-Sigma capabilities in supply chain analytics

Received a Mu Sigma Spot award for innovation in designing and building innovative solutions

## Technical Competencies

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Worked on the following languages/tools

- Analytics: R, Python, CPLEX
- Data handling: SQL, Alteryx
- Visualization: Tableau, HTML, CSS, JavaScript

## Education

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Business Analytics and Intelligence	Indian Institute of Management
<ul style="list-style-type: none"><li>Currently pursuing executive education in IIM Bangalore</li><li>Project: Creating a rewards and recognition program for a life insurance client</li></ul>	Bangalore 2019-2020
Bachelors of technology: Mechanical engineering	Amrita Vishwa Vidyapeetham
<ul style="list-style-type: none"><li>Graduated with distinction and CGPA of 8.91 /10</li><li>Averaged 9.5/10 in mathematics and statistics courses</li><li>Event coordinator for various events. Treasurer for SQE club</li></ul>	Bangalore campus 2013-2017
Intermediate education:	Hyderabad, Andhra Pradesh
<ul style="list-style-type: none"><li>Secured 93.3% in the state board examinations (BIEAP)</li><li>Averaged 96.6% in mathematics courses</li></ul>	2011-2103

## Publications

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- Harsha, A. S. (2020 Feb) Personal analytics: Time management using Google Maps. In *ICSADADS 2020*
- Harsha, A. S., et al. (Under publication) Purchase order optimisation
- Harsha, A. S., Akhil, J., Nagaraja, S. R. et al. (2017, Aug). [Parametric Study of Cantilever Plates Exposed to Supersonic and Hypersonic Flows](#). In *IOP Conference Series: Materials Science and Engineering* (Vol. 225, No. 1, p. 012047)

## Personal Projects

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- Designed and maintains [www.harshaash.website](http://www.harshaash.website). Publishes blogs on topics related to the basics of analytics and exciting day to day use cases of analytics.
- Created dashboards which explain analytical concepts on shinyapps.io

## Certifications

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Course Name	Issuing org	Platform
Data Engineering, Big Data, and Machine Learning on GCP	Google Cloud	Coursera
PH125.8x: Data Science: Machine Learning	Harvard University	HarvardX
Tableau 10 A-Z: Hands-On Tableau training for data science	Udemy	Udemy
Machine Learning A-Z: Hands-On Python & R In Data Science	Udemy	Udemy

## Personal Information

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Date of birth: 5th December 1995  
Linguistic Proficiency: Telugu, English, Hindi  
Interests and Hobbies: Reading, swimming, blogging