Sri Vallabha Deevi

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Experience _____

Tiger Analytics Chennai, India

LEAD DATA SCIENTIST

Jan 2018 - present

- Full truck load freight cost prediction for a US 3PL company. Solution in use since 2020 and improved margins and conversion rates.
- · Industrial safety compliance monitoring using Deep Learning. Alerting violations of PPE equipment usage and unauthorized entries.
- · Marketing channel efficiency measurement using Multi Touch Attribution and Market Mix Modeling for a US wine retailer.
- Recommendation System for email marketing and Propensity Modeling for in-store coupon delivery for the same retailer.
- Equipment failure prediction via **Anomaly Detection** using IoT sensor data for the largest steel company in India.
- · Process control using Reinforcement Learning for optimal product properties, for the same steel company.
- Attribution modeling in store product placement effectiveness, production activities driving energy consumption.
- AB testing of product features, conversion propensity modeling for an anti-virus software company.
- Warehouse inventory management using Reinforcement Learning for a US consumer food company.
- Hypothesis testing to relate sales patterns and margins for a national beverage distributor in the US.
- Speaker at AI,ML Conferences ODSC APAC 2020, Cypher 2019, Data Hack Summit 2018.
- Team building mentoring data science teams, interviews for candidate selection.

Indian Institute of Technology Madras

Chennai, India

SENIOR SCIENTIST

Aug 2015 - Dec 2017

• Statistical analysis of experimental data from sprays - Time Series Modeling, Extreme Value Analysis, Conditional Probability. · Modeling breakup mechanisms of liquid droplets using Population Balance Model and Euler-Euler formulation of two phase flow.

Emmeskay Systems Chennai, India

Apr 2008 - Jun 2009 ENGINEER

Mathematical modeling of automotive systems for concept evaluation and control strategy development.

• Design of **Hybrid Electric Tricycle** with manual and electric propulsion.

Deloitte Consulting Hyderabad, India

BUSINESS ANALYST

Jul 2007 - Mar 2008

• MS Excel based model to improve profit margins for 1500 SKUs across nine geographies of a safety consumables company in the US.

Education _

Indian Institute of Science

Bangalore, India

DOCTOR OF PHILOSOPHY IN AEROSPACE ENGINEERING

Jul 2009 - Jul 2015

- · Computational study of fuel spray evaporation in gas turbine engine using High Performance Scientific Computing.
- Developed a 3D Parallel Computing code in FORTRAN to calculate properties of continuous phase, and Lagrangian tracking for droplets.
- Established the usage of Explicit Filtering Large Eddy Simulation for predicting dilute multi phase flows.

Indian Institute of Technology Madras

Chennai, India

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING, CGPA: 9.14/10

Jul 2003 - Jun 2007

- Finished in top 5 in a class of 110, with focus on Thermal Engineering and Minor in Marketing Management.
- Andhra Pradesh Chief Minister's Pratibha Award Gold Medal for outstanding performance (top 0.4%) in IIT-JEE 2003.

Skills _

Languages Python, R, SQL, PySpark, CUDA, C, C++, FORTRAN

Engineering MATLAB, OpenFOAM, Scilab, Octave, Fluent, AutoCAD, ParaView **Assorted** TensorFlow, PyTorch, Linux, git, LaTeX, CFD, Statistics, Robotics

Learning Data Camp profile: https://www.datacamp.com/profile/srivallabhad

Accomplishments

Industry Expert, Board of Studies

- Vellore Institute of Technology (VIT), Chennai. (2018)
- G.H. Raisoni College of Engineering, Nagpur. (2018)
- SRM University, Chennai. (2019)
- Loyola Institute of Business Administration, Chennai. (2020 -)
- Galgotias University, Noida. (2020)

Certifications

- Heterogeneous Parallel Programming (CUDA) Coursera.
- Machine Learning by Andrew NG, Coursera.
- Mining Massive Data Sets Stanford.
- Data Scientist with Python, Data Scientist with R Data Camp.

Scholastic Achievements

- GRE: 1370/1600 (Quant: 800/800, Verbal: 570/800, AWA: 4/6) in Sep 2008
- TOEFL: 113/120 Read: 30/30, Listen: 30/30, Speak: 24/30, Write: 29/30 in Sep 2008.
- All India Ranks 773 in IIT-JEE 2003 and 652 in AIEEE 2003.
- State Ranks 810 in EAMCET 2003 and 19 in AIEEE B-Arch. 2003.

Academic Publications

- Shapes of splattered drops. Langmuir, 2017, 33 (18).
- · Spatio-temporal microstructure of sprays: data science-based analysis and modelling. Journal of Fluid Mechanics, 912, A19.
- Large Eddy Simulation of evaporating spray jets. Paper No: GT2015-43306, Montreal, Canada.
- Drop size distribution effects in intersecting sprays. ILASS-Asia 2016, Chennai, India.
- Large Eddy Simulation of particle laden flows. ILASS-Asia 2016, Chennai, India.
- Identifying non-Markov effects in sprays. ILASS-Asia 2016, Chennai, India.
- Shapes of randomly placed drops. APS-DFD 2016, Portland, USA.
- Non-Markov effects in intersecting sprays. APS-DFD 2016, Portland, USA.

Co-curricular Activities

- Coordinator, Student's Council, IISc 2011 2012.
- Creative Contributor, Telugu Samithi, IISc 2010 2011.
- Associate, Janaagraha Center for Citizenship and Democracy 2008 2009.
- Coordinator, National Service Scheme, IIT Madras 2004 2007.
- Coordinator, MECHANICA, IIT Madras 2006.
- Contributor, Campus Magazines, IIT Madras 2005 2006.