

**Dr. Santosh Kumar Shrivastava**  
Assistant Professor  
Department of Business Analytics  
**IMT Ghaziabad**  
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**Research interest:**

Machine Learning and Deep learning, Survival Analysis, Stochastic Modelling, Nonlinear Optimization

**Teaching Interest:**

Machine Learning and Deep learning, Business Statistics, Business Analytics, Data Visualization, Stochastic Models, Predictive Analytics, Mathematical Modelling and Simulation, Data Analysis, Base and Advanced SAS, R, Basic Python, Statistics, Optimisation

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**Education**

**Jaypee University of Engineering and Technology, Guna** 2014

Doctor of Philosophy in Operational Research

- Thesis: On Some Contribution to Optimality Conditions and Duality in Mathematical Programming
- Advisor: Prof. I. Husain

**Indian Institute of Technology, Roorkee** 2007

Master of Science in Applied Mathematics

- Thesis: Application of Simple and Simpler methods in Computational Fluid Dynamics
- Advisor: Prof. P. Bera

**Dr. R. M. L, University, Faizabad** 2004

Bachelor of Science in Physics and Mathematics

- First Class passed with an aggregate of 71%

**Work Experience**

**IMT Nagpur** Feb, 2018-Till Date

Assistant Professor

**NIIT University, Neemrana** July, 2016-Feb, 2018

Assistant Professor

**Indian School of Business, Mohali** July 2014- July 2016

Research and Academic Associate (Operations)

**High Technology Solutions, Noida** Jan 2014- July 2014

SAS Analyst

**Jaypee University of Engineering and Technology, Guna, MP** July 2010 - Jan 2014

Teaching Associate (Research Scholar)

**Matrix Nodes, Noida,** July, 2008-July, 2008

Data Analyst

**Kairaus Software Pvt. Ltd., Gurgaon,** July 2007 – April 2008

Data Analyst

## **Part Time Assignments:**

1. Consultant/Trainer  
Bridge School of Management and Northwestern University
2. Trainer for R and SAS  
Ducat Noida, HTS Noida

## **Academic Achievements**

All India rank **120 in IIT-JAM** exam conducted by IIT

Merit-Cum means Scholarship in IIT-ROORKEE, India.

**UGC-NET** qualified in mathematical science in 2006-2007.

IITS assistantship provided by MHRD for the visit of Berlin Germany

All India **Rank 355** in Gate Mathematics, 2016

Awarded as a Best Academic Associates of the year 2015-16 in ISB Mohali

## **Research Publications:**

### **Published and Forthcoming Research Papers:**

1. Kumar, A., Shrivastav, S., "Performance Evaluation of Indian Banks Using Feature Selection Data Envelopment Analysis: A Machine Learning Perspective" accepted for publication in Journal of Public Affairs.
2. Shrivastav, Santosh Kumar, and P. Janaki Ramudu. "Bankruptcy Prediction and Stress Quantification Using Support Vector Machine: Evidence from Indian Banks." *Risks* 8, no. 2 (2020): 52. Risk.
3. Shrivastava, Santosh, P. Mary Jeyanthi, and Sarbjit Singh. "Failure prediction of Indian Banks using SMOTE, Lasso regression, bagging and boosting." *Cogent Economics & Finance* 8, no. 1 (2020): 1729569. Taylor & Francis.
4. Jادیappa N, Joseph A, Sisodia G, Krishanankutty R, Shrivatsava Santosh. Corporate Social Responsibility and Cash holdings in India: Evidence from a natural experiment. *Finance Research Letters*. Elsevier, 2020.
5. Nemiraja Jادیappa, Garima Sisodia, Anto Joseph, Santosh Shrivastsava, Pavana Jyothi, Creditors' governance, information asymmetry and debt diversification: evidence from India; *International Journal of Managerial Finance*.
6. Kumar, A., Shrivastav, S., Adlakha, A., & Vishwakarma, N. K. (2020). Appropriation of sustainability priorities to gain strategic advantage in a supply chain. *International Journal of Productivity and Performance Management*.
7. Santosh Shrivastav "Measuring the determinants for the survival of Indian banks using Machine Learning Approach" *FIIB Business Review*" sage publications, 2019.
8. I. Husain and Santosh K. Srivastava "On Non-Differentiable Nonlinear Programming," *Journal of Applied Mathematics & Bioinformatics*, Vol.3, no.2, 2013, 45-64.

9. Husain and Santosh K. Srivastava “Fritz John Duality in the Presence of Equality and Inequality Constraints,” *Applied Mathematics*, 2012, 3, 1023-1028.
10. Husain and Santosh K. Srivastava “Sufficient Fritz John Type Optimality Criteria and Duality for Control Problems,” *American Journal of Industrial and Business Management*, 2013, 3, 237-244.
11. Husain and Santosh K. Srivastava “On Second-Order Fritz John Type Duality for Variational Problems,” *Journal of Applied Mathematics & Bioinformatics*, Vol. 3, no. 2, 2013, 65-86.
12. Husain, Santosh K. Srivastava “On Second-Order Duality in Non-Differentiable Continuous Programming,” *American Journal of Operations Research*, 2012, 2, 289-295.
13. Husain, Santosh K. Srivastava “Mixed Type Second-order Duality for a Non-Differentiable Continuous Programming Problem,” *Theoretical Mathematics & Applications*, Vol. 3, no. 1, 2013, 123-144.
14. Husain, Santosh K. Srivastava “Generalized Second-Order Duality for a Continuous Programming Problem with Support Functions,” *Studies in Mathematical Sciences*, Vol. 7, no. 1, 2013.
15. I. Husain, Santosh K. Srivastava, Abdul Raof Shah “On Continuous Programming with support functions” *Applied Mathematics*, Vol.4, no.10, 2013, pp. 1441-1449.

#### **National / International Conferences Presented Paper:**

1. 3rd International Conference on “**Soft Computing for Problem Solving**”, December 26-28, 2013. (Participated and a presented Research Paper entitled “Generalized Second-Order Duality for a Class of Non-Differentiable Continuous Programming Problems”).
2. International Conference “**On Mathematical Modeling And Numerical Simulation**”, organized by Dept. of Mathematics, Babasaheb Bhimrao Ambedkar University, Lucknow, Jul. 01-03,2013 (Participated and presented a Research Paper entitled “On Continuous Programming with support functions”).
3. Parijat Upadhyay, Santosh Shrivastav and Anup Kumar, Employee turnover in the IT sector- **A triangulation study using factor analysis and Artificial Intelligence**, Sixth Biennial Conference of the Indian Academy of Management (INDAM); January 2 – 4, 2020, Indian Institute of Management Tiruchirappalli.

4. Anup Kumar and Santosh Shrivastav “**Appropriation of Sustainability Functions to Gain Strategic Advantage in a Supply chain: A Suppliers Perspective**”. 6<sup>th</sup> International Conference on Sustainability & Management Strategy (ICSMS) at IMT Nagpur during Sept. 27-28, 2019.
5. Kumar Anurag; Kumar Anup; Shrivastav Santosh. “**Measuring Strategic fit in the automotive supply chain: A data source triangulation based research**”. 2<sup>nd</sup> Annual Management Conference and Workshop January 27-29.2020, IMT Nagpur.

#### **Short Term Programs / Workshops Attended:**

1. National Workshop on “**Optimization and Information Theory with Their Applications**”, Organized by Jaypee University Of Engineering & Technology, Guna, India, held on March 24-26, 2011.
2. National Workshop on “**Energy Storage/ Conversion Devices Using Ion Conducting Polymer Electrolytes**” Organized by Jaypee University of Engineering & Technology, Guna, India, held on December 10-12, 2012.
3. FDP on Business Analytics, IIM Bangalore, 2018.
4. FDP on Time-Series Forecasting, ISI Bangalore, 2019.
5. FDP on Multivariate Analysis, IIT KGP, 2019.
6. Certificate course on Deep learning and Artificial intelligence from CloudxLab and IIT Roorkee (Continuing)

#### **Skills Acquired**

**Software Packages:** Python, R, SAS, Excel, SQL, Tableau, SPSS