

# Dipak Kumar Singh

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CONTACT INFORMATION	Room STEM 312K Department of Computer Science Stephen F. Austin State University Nacogdoches, TX 75962	Phone: (936) 468-2508  E-mail: dipak.singh@sfasu.edu
INTERESTS	<p><b>Theory:</b> Probabilistic Machine Learning, Deep Learning, Computer Networks, Distributed Computing.</p> <p><b>Applications:</b> Computer Vision, Natural Language Processing, Data Center Networks, Big Data Analytics, Bioinformatics</p> <p><b>Specific Research Areas:</b> Spatio-Temporal analysis, geometric deep learning, optimization algorithms for data centers</p>	
EDUCATION	<p><b>Ph.D. Computer Science,</b> Louisiana State University, Baton Rouge, Louisiana, USA Thesis: A Study on the Improvement of Data Collection in Data Centers and Its Analysis on Deep Learning-based Applications</p> <p><b>B.Tech Computer Science,</b> National Institute of Technology, Durgapur, West Bengal, India</p>	<p>Summer 2020 (GPA 3.97/4.0)</p> <p>April 2013 (CGPA 8.39/10)</p>
PROFESSIONAL PROFILE	<p><b>Assistant Professor,</b> Department of Computer Science, Stephen F. Austin State University,</p> <p><b>Reviewer</b> Texas Academy of Sciences,</p> <p><b>Instructor/Teaching Assistant</b> Louisiana State University, <b>Graduate Research Assistant</b> Louisiana State University,</p>	<p>Aug 2020-present</p> <p>2021, 2022</p> <p>2013-2018 2019-2020</p>
GRANTS	<ul style="list-style-type: none"> <li>• Research/Creative Activity Grants Funding Agency: Stephen F. Austin State University Duration: Jan 2021 - Aug 2021 Role: PI Amount: \$7,450</li> <li>• President's Innovation Fund Funding Agency: Stephen F. Austin State University Duration: June 2021 - May 2022 Role: Co-PI Amount: \$15,000</li> <li>• President's Innovation Fund - Refinement Project Funding Agency: Stephen F. Austin State University Duration: Jan 2023 - Aug 2023 Role: Co-PI Amount: \$34,071</li> </ul>	

## PUBLICATIONS

- Seungwon Yang, **Dipak K Singh**, Shayan Shams. “A Two-Step Approach to Detect and Understand Disinformation Events Occuring in Social Media: A Case Study with Critical Times”, *Journal of Contingencies and Crisis Management (JCCM)*, 2022. (Under review).
- **Dipak K Singh**, Shayan Shams, Seungwon Yang, Joohyun Kim, Seung-Jong Park. “Fighting for Information Credibility: An End-to-End Framework to Identify Fake News during Natural Disasters”, *International Conference on Information Systems for Crisis Response and Management (ISCRAM)*, 2020.
- Chui-hui Chiu, **Dipak K Singh**, Qingyang Wang, Kisung Lee, Seung-Jong Park. “Coflourish: An SDN-Assisted Coflow Scheduling Framework for Clouds”, *IEEE International Conference on Cloud Computing (CLOUD)*, 2017.
- Chui-hui Chiu, **Dipak K Singh**, Qingyang Wang, Kisung Lee, Seung-Jong Park. “Minimal Coflow Routing and Scheduling in OpenFlow-Based Cloud Storage Area Networks”, *IEEE International Conference on Cloud Computing (CLOUD)*, 2017.
- Chui-hui Chiu, Nathan Lewis, **Dipak K Singh**, Arghya Kusum Das, Mohammad M Jalazai, Richard Platania, Sayan Goswami, Kisung Lee, Seung-Jong Park. “BIC-LSU: Big Data Research Integration with Cyberinfrastructure for LSU,” *XSEDE Conference (XSEDE16)*, 2016.

## PRESENTATIONS

- Dipak Singh, Matthew Beauregard. “Developing a Modeling Mindset through Data Analytics”, *Joint Mathematics Meetings for Consortium for Mathematics and its Applications (JMM-COMAP)*, American Mathematical Society, 2023.

## TEACHING EXPERIENCE

**Course Instructor**,  
Object-Oriented Programming Principles  
Computer Science Principles  
Computer Networks  
Network Administration  
Data Analytics I  
Data Analytics II  
Introduction to Data Analytics  
Data Analytics Capstone Project

## STUDENT MENTORED RESEARCH PROJECTS

### Poster Publications

- Jaliyah Herbert, Dipak Singh. “Classification of Biofilm Formation using Artificial Intelligence”, *Summer Undergraduate Research Experience (SURE)*, Stephen F. Austin State University, 2022.
- Fares Soltani, Keith Hubbard, Vinh Dang, Brooke Busbee, Dipak Singh. “Learning Management Data Improves Predictions more than Classic Predictors”, *Southwest Data Science Conference (SDSC) 2022*, Baylor University.
- Rachel Rucker, Vinh Dang, Keith Hubbard, Dipak Singh. “Machine Learning in Support of Student Success”, *Southwest Data Science Conference (SDSC) 2022*, Baylor University.
- Don-Josh Argomido, Eric Chen, Dipak Singh. “Deep Learning Based Facemask Detection”, *Mentored Undergraduate Student Experience (MUSE)*, Department of Computer Science, Stephen F. Austin State University, 2021.

## PERSONAL ACHIEVEMENTS

2017 LSU Alumni Association International Student Scholarship.

Honorable Mention, ACM-ICPC International Collegiate Programming Contest, 2013.  
Research Summer Internship, DIVE lab, IYTE, Turkey, 2012.