Amit Kumar Saha

Graduate Research Assistant - University of Arkansas

479-966-6494 | Email: saha@uark.edu | LinkedIn: Amit Kumar Saha | Fayetteville, AR | Google Scholar: Amit Kumar Saha

EDUCATION	
Ph.D. in Industrial Engineering	Expected: Dec 2026
University of Arkansas	GPA: 3.86/4.00
MS in Industrial Engineering	Awarded: Dec 2022
The University of Texas at El Paso (UTEP)	GPA: 4.00/4.00
B.Sc. in Industrial and Production Engineering	Awarded: April 2018
Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh.	
TECHNICAL SKILLS	
• Programming Language: Python, R	
 Statistical Data Analysis: JMP, SPSS, Minitab, Microsoft Excel 	
Optimization Solver: GUROBI	
 Simulation Software: SIMIO, Anylogic, Flexsim 	
 Computer-Aided Design (CAD) Software: SolidWorks, AutoCAD 	
CERTIFICATIONS	
 Lean Six Sigma Yellow Belt – Texas Manufacturing Assistance Center (TMAC) 	Feb 2022
 Data Science Foundations (Level 1) – IBM (LinkedIn) 	Mar 2021
Data Science Tools – IBM (LinkedIn)	Mar 2021
 Data Science Methodologies – IBM (LinkedIn) 	Mar 2021
• Python for Data Science – IBM (LinkedIn)	Mar 2021
 Data Analysis Using Python - IBM (LinkedIn) 	Mar 2021
RESEARCH EXPERIENCE	
Project: Developing machine learning classifiers from the vibration signals dataset.	UARK, AR, May 2023
Different trained machine learning classifier models were developed in R to classify faulty	/ sun gears.
 All the classifiers were evaluated through the test dataset based on "accuracy" and the be was used. 	est model (Accuracy of 93%)
Project: Developing machine learning predictive models to predict the popularity of an online vid	eo LIARK AR Mar 2023
Several machine learning models were developed in B to predict the growth of a YouTube	
 The models were evaluated based on RMSE value and the best model was used for predict 	
Project: Toyas Tash University Health Sciences Center Mailroom Work Ontimization	TED TV June 2022 Aug 2022
Project: Texas Tech University Realth Sciences Center Mainform Work Optimization.	TEP, TX, June 2022 – Aug 2022
Identified the key Performance indicators (kPI) associated with the worknow of mailroon	n
Optimized the value-added time of the delivery and standardize the work procedure	
Reduced the delivery time of mail and packages by 35 seconds	
Project: Supply Chain Digital Twin	UTEP, TX, Apr 2021- Dec 2022
 Analyze the potential supplier from the region 	
 Collaborate with similar companies to ensure better responsiveness to customer 	
 Execute the best use of the money within the region 	
Project: Machine Scheduling Development KUET, Ban	gladesh, May 2017 – Oct 2017
• Increased the productivity of 2.61% of a jute industry through proper synchronization of	Drum-Buffer-Rope scheduling
• Optimized the value-added time of an industry and return on investment increased by 0.	3% per month
Resulted in journal publication	
Project: Network Development of Supply Chain KUET, Ban	gladesh, June 2017- Mar 2018
 Optimized the supply chain transportation cost, reduced by 2.96% 	
 Development of supply chain transportation mode and network 	
 Improved the material handling in supply chain stages by 4% 	

PROFESSIONAL EXPERIENCE

University of Arkansas: Graduate Research Assistant	Fayetteville, AR, Jan 2023- Present
Research Areas: Applied Statistics, Data Analytics, Operations Research, Machine Learn	ling
University of Texas at El Paso (UTEP): Graduate Research and Teaching Assistant	El Paso, TX, Jan 2021- Dec 2022

Interested Areas: Supply Chain Management, Discrete Event Simulation

Courses: Industrial Systems Simulation, Decision Support System

British American Tobacco Bangladesh: Infrastructure Analyst

- Shop floor production integrated software maintenance- Reduced managerial paperwork by 30%
- Shop floor production integrated software trainer of around 400 machine employees resulted in 10% efficient and errorless data input

Sept 2019 - Dec 2020

Bangladesh, Feb 2019 - Aug 2019

UARK, Aug 2024 - Present

- Troubleshooting of production integrated software difficulties and observation of data analysis using Microsoft Excel and SPSS
- Connected shop floor real time data in production integrated software by Python and R programming in order to visualize from the managerial level for the decision making which Increases the response time of the company by 7%

DBL Group: Junior Executive, Planning

• Forecasted and planned the production demand using MS Project that increased the fill rate of orders by 5% from the last year

JOURNAL ARTICLES

1. Saha, Amit Kumar. Analyzing the Supply Chain Operation of a Fast-Food Restaurant Using Simulation Modeling and Developing a Cost Estimation Optimization Model in the Disruption Period. MS thesis. The University of Texas at El Paso, 2022.

Analyzing the Supply Chain Operation of a Fast-Food Restaurant Using Simulation Modeling and Developing a Cost Estimation Optimization Model in the Disruption Period

2. Al Amin, Md, Amit Kumar Saha, and Tanzira Ulfat Mohona. "Performance improvement of jute industries using the theory of constraints (TOC)." European Journal of Advances in Engineering and Technology 5.5 (2018): 303-311. Performance Improvement of Jute Industries using Theory of Constraints (TOC)

SCHOLARSHIPS/AWARDS/ACHIEVEMENTS

Johns-Lane Endowed Graduate Academic Award	UARK, USA, 2024
Reginald R. 'Barney' & Jameson A. Baxter Graduate Fellowship	UARK, USA, 2024
Industrial Engineering Graduate Fellowship for 2023-24 & 2024-25	UARK, USA, 2023 & 2024
Doctoral Students Travel Grant for IISE Annual Conference and Expo 2023 and 2024	UARK, USA, 2023 & 2024
Outstanding Graduate Student Award	UARK, USA, Apr 2024
Outstanding Graduate Student Award	UTEP, USA, Dec 2022
Dean's List award in 2018 for attaining at least 3.75 GPA out of 4.00 in Level 4	KUET, Bangladesh, Aug 2019
	Johns-Lane Endowed Graduate Academic Award Reginald R. 'Barney' & Jameson A. Baxter Graduate Fellowship Industrial Engineering Graduate Fellowship for 2023-24 & 2024-25 Doctoral Students Travel Grant for IISE Annual Conference and Expo 2023 and 2024 Outstanding Graduate Student Award Outstanding Graduate Student Award Dean's List award in 2018 for attaining at least 3.75 GPA out of 4.00 in Level 4

LEADERSHIP EXPERIENCE

Treasurer, INFORMS Student Chapter at University of Arkansas

Organized guest faculty research presentation seminar for the Industrial Engineering students at University of Arkansas

Organized graduate intern experience sharing panel session in the department of Industrial Engineering
Treasurer, Bangladeshi Student Association(BSA) at UTEP
 UTEP, May 2021-Dec 2022

- Managed and oversaw the BSA organization for the welfare of graduate and Undergraduate students of almost 100
- Actively participated in the Student Engagement and Leadership Center (SELC) activities on behalf of BSA at UTEP
- Organized annual picnic, recreational outdoor activities for the Bangladeshi community of 100 people