

# Amit Kumar Saha

## Graduate Research Assistant - University of Arkansas

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### EDUCATION

<b>Ph.D. in Industrial Engineering</b> University of Arkansas	Expected: May 2026
<b>MS in Industrial Engineering</b> The University of Texas at El Paso (UTEP)	Awarded: Dec 2022 GPA: 4.00/4.00
<b>B.Sc. in Industrial and Production Engineering</b> Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh.	Awarded: April 2018 GPA: 3.57/4.00

### RESEARCH INTEREST

<input type="checkbox"/> Stochastic optimization	<input type="checkbox"/> Operations Planning and Control
<input type="checkbox"/> Supply Chain Logistics System	<input type="checkbox"/> Data Analytics and statistics
<input type="checkbox"/> Healthcare	<input type="checkbox"/> Design of Experiments

### RESEARCH EXPERIENCE

<b>Project:</b> Supply Chain Digital Twin	UTEP, TX, Jan 2021 – Dec 2022
<ul style="list-style-type: none"><li>Analyze the potential supplier from the region</li><li>Collaborate with similar companies to ensure better responsiveness to customer</li><li>Execute the best use of the money within the region</li></ul>	
<b>Project:</b> Machine Scheduling Development	KUET, Bangladesh, May 2017 – Oct 2017
<ul style="list-style-type: none"><li>Increased the productivity of 4.61% of a jute industry through proper synchronization of Drum-Buffer-Rope scheduling</li><li>Optimized the value-added time of an industry and return on investment increased by 0.3% per month</li><li>Resulted in journal publication</li></ul>	
<b>Project:</b> Network Development of Supply Chain	KUET, Bangladesh, June 2017- Mar 2018
<ul style="list-style-type: none"><li>Optimized the supply chain transportation cost, reduced by 2.96%</li><li>Development of supply chain transportation mode and network</li><li>Improved the material handling in supply chain stages by 4%</li></ul>	

### JOURNAL ARTICLES

- 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 \(TOC\)](#)

### TECHNICAL SKILLS

- Programming Language:** C, Python and R
- Statistical Data Analysis:** SPSS, Minitab, Microsoft Excel, Macros, VBA, Solver and ANOVA
- Optimization Software:** LINDO
- Simulation Software:** SIMIO
- Computer-Aided Design (CAD) Software:** SolidWorks and AutoCAD
- Microsoft Office Packages:** MS Word, MS PowerPoint, and MS Outlook, MS Project

### SCHOLARSHIPS/AWARDS/ACHIEVEMENTS

- Dean's List award in 2018 for attaining at least 3.75 GPA out of 4.00 in Level 4
  - Outstanding Graduate Student Award
- KUET, Bangladesh, Aug 2019  
UTEP, USA, Dec 2022

### 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

## PROFESSIONAL EXPERIENCE

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**University of Texas at El Paso (UTEP): Graduate Research and Teaching Assistant** El Paso, TX, Jan 2021- Present

Research Areas: Supply Chain, Discrete Event Systems Simulation

Teaching Assistantship Courses: Industrial Systems Simulation (Graduate and Undergraduate Level), Decision Support System

**British American Tobacco Bangladesh: Infrastructure Analyst, Information and Digital Technology (IDT) Sept 2019 - Dec 2020**

- 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.
- 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 to visualize from the managerial level for the decision making which Increases the company's response time by 7%.

**DBL Group: Junior Executive, Planning** Bangladesh, Feb 2019 – Aug 2019

- Forecasting and planning the production demand using MS Project increased orders' fill rate by 5% from last year.

**Abdul Monem Ltd: Engineering Intern** Bangladesh, Jan 2018

- Design a better supply chain transportation mode and network for the company to optimize cost and responsiveness. Total cost was reduced by 2.2%.

**Novartis Pharmaceuticals Bangladesh: Engineering Intern** Bangladesh, June 2016

- Developed an inventory cluster system of the current layout of the company using the ABC approach and reduced the inventory cost by 3% from the previous year.

**Aristopharma Ltd: Engineering Intern** Bangladesh, June 2017

- Study the Engineering Process, Quality Assurance, Supply Chain, and R&D of a pharmaceutical company.

## LEADERSHIP EXPERIENCE

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**Treasurer**, Bangladeshi Student Association (BSA) at UTEP El Paso, TX, May 2021- Present

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

**Co-Founder**, IEM Language Club at KUET KUET, Bangladesh, May 2017 - Mar 2018

- Organized a seminar of 100 students on "GRE: The Base of Higher Study in the USA" on behalf of IEM Language Club, resulting in students being informed about the application procedure and requirements for studying in the USA.
- Organized a seminar of 100 students on "Presentation is the powerful weapon of Talent" on behalf of the IEM Language Club to make the undergraduate students more fluent in presentation.

## REFERENCES

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### 1. Dr. Alan Vazquez

Assistant Professor

Industrial Engineering

University of Arkansas

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### 2. Dr. Burak Eksioğlu

Professor

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