

# Joy Krishan Das

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🌐 Homepage 📄 Google Scholar 🐙 GitHub

## 🎓 ACADEMIC CREDENTIALS

**Master of Science**, Computer Science/Software Engineering  
University of Saskatchewan, Canada  
September 2023 – Present

Grade           **91%**  
Advisor       Prof. Dr. Chanchal K. Roy

**Bachelor of Science**, Computer Science and Engineering  
BRAC University, Bangladesh  
May 2016 – April 2020

CGPA           **3.92/4.00**, *Highest Distinction* 🏆  
Advisor       Prof. Dr. Amitabha Chakraborty  
Thesis       Urban Sound Classification using Convolutional Neural Network and Long Short Term Memory based on Multiple Features 📄  
Awards       Vice Chancellor's List (eight semesters), Dean's List (two semesters), Merit-Based Scholarship

## 🏢 PROFESSIONAL EXPERIENCE

### Employment History

#### Graduate Teaching Assistant, University of Saskatchewan 📄

Duration       September 2023—Present  
Responsibilities   Appointed as a graduate teaching assistant in the Department of Computer Science from 2012 to 2019. I was responsible for graduate research & development, leading tutorials of CMPT 370: Intermediate Software Engineering, and for marking three other undergraduate courses.

#### Software Engineer, Therap (BD) Ltd. 📄

Duration       September 2021—July 2023  
Responsibilities   Implemented automated quality assurance processes with Java, Selenium WebDriver, and REST Assured, while conducting various types of testing and sharing domain knowledge.

#### Lecturer (On Contract), BRAC University 📄

Duration       October 2020—February 2021  
Responsibilities   Created lesson plans for Artificial Intelligence and Introduction to Computer Science, and offering support during office hours.

#### Undergraduate Teaching Assistant, BRAC University 📄

Duration       January 2019—April 2020  
Responsibilities   Assisted with Java in the Programming Language I and II courses. Helped students with MATLAB in the Numerical Methods course

### Programming, Software, and Technologies

- **Programming Languages:** Python, Java, JavaScript, Dart
- **Web Frameworks:** HTML, CSS, React, Node.js, Express.js, Django, Flask
- **Data Science Tools:** NumPy, Pandas, Scikit-Learn, Jupyter, Keras, PyTorch
- **Database Programming:** MySQL, PostgreSQL, MongoDB, JDBC
- **DevOps:** Git, GitHub, GitLab, Docker
- **Agentic Frameworks:** Langchain, LangGraph, Autogen, AutoGPT

## 📖 PEER REVIEWED PUBLICATIONS

- [5] **Joy Krishan Das**, S. Mondal, and C. Roy, “Why Do Developers Engage with ChatGPT in Issue-Tracker? Investigating Usage and Reliance on ChatGPT-Generated Code”, In Proceeding of The 32nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (**SANER**), Montreal, Canada, March 2025. (Acceptance Rate: **23.11%**) (**TCSE Distinguished Paper Award\***) 📄 (**Featured at Ministry of AI Blog\***) 📄

- [4] S. Cynthia, S. Mondal, **Joy Krishan Das**, and B. Roy, “*Gender Disparities in Contributions, Leadership, and Collaboration: An Exploratory Study on Software Systems Research*”, In the Proceeding of The Sixth Workshop on Gender Equality, Diversity, and Inclusion in Software Engineering (**GE@ICSE**), Ottawa, Canada, 2025. (To appear)
- [3] **Joy Krishan Das**, Saikat Mondal, and Chanchal K. Roy, “*Investigating the Utility of ChatGPT in the Issue Tracking System: An Exploratory Study*”, In the Proceeding of The 21st IEEE/ACM International Conference on Mining Software Repositories (**MSR**), Lisbon, Portugal, 2024. (Acceptance Rate: **45%**)

## 🏆 AWARDS

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- [6] **[2025] TCSE Distinguished Paper Award**: Awarded by the Technical Council of Software Engineering for the **SANER 2025** paper —“*Why Do Developers Engage with ChatGPT in Issue-Tracker? Investigating Usage and Reliance on ChatGPT-Generated Code*” 
- [5] **[2025] Graduate Travel Award**: Awarded by the University of Saskatchewan for SANER 2025 travel to Montreal, Canada. Award value: \$500
- [4] **[2024] Dr. Keith Geddes Award (Nomination)**: Nominated by Prof. Dr. Chanchal K. Roy, this award is given to *only one* MSc student by the Department of Computer Science at the University of Saskatchewan for exemplary research and academic performance in the MSc program.
- [3] **[2024] SOAR Distinguished Research Award**: Awarded by SOAR program for the **MSR 2024** paper —“*Investigating the Utility of ChatGPT in the Issue Tracking System: An Exploratory Study*.” Award value: \$300
- [2] **[2023] SOAR People’s Choice Presentation Award**: Awarded by SOAR program for outstanding presentation on topic —“*Large Language Models as Codebase Healers: Exploring Automated Program Repair and Test-Suite Generation*.” Award value: \$300
- [1] **[2022] Highest Distinction Award**: Awarded by BRAC University at the 19th Convocation, this award is given to candidates with a CGPA of 3.80 or higher

## 💰 SCHOLARSHIPS

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- [2] **[2023-2025] Faculty Scholarship & Graduate Teaching Fellowship**: Awarded by the Department of Computer Science, University of Saskatchewan for the Masters program. Scholarship amount: \$25,000/year for 2 years
- [1] **[2023-2025] Merit-Based Scholarship**: Awarded by the Department of Computer Science, BRAC University for the Bachelors program. Scholarship amount: \$2,100



## 👥 VOLUNTARY SERVICES

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- [3] (2024) Vice President Internal: Computer Science Graduate Council, USask
- [2] (2021) MOOC Mentor: DeepLearning.AI
- [1] (2021) Section Leader: Code In Place, Stanford University

## 🌟 CERTIFICATIONS

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- [2] (2020) Google IT Automation with Python Professional Certificate 
- [1] (2020) Natural Language Processing - DeepLearning.AI Specialization 

## 👤 PROFESSIONAL REFERENCES

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(1) **Prof. Dr. Chanchal K. Roy**  
 Professor, University of Saskatchewan, Canada  
**Email:** chanchal.roy@usask.ca  
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**URL:** cs.usask.ca/faculty/croy

(2) **Dr. Banani Roy**  
 Associate Professor, University of Saskatchewan, Canada  
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