

# RITWICK JOHARI

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[Github](#) | [LinkedIn](#)

## Education

### Guru Gobind Singh Indraprastha University, Delhi

August 2022-July 2026

University School of Automation and Robotics

**CGPA: 8.0/10**

B. Tech Artificial Intelligence & Data Science

### Class XII – Senior Secondary Education

March 2022

Central Board of Secondary Education (CBSE)

**Percentage: 85**

Ahlcon International School, Delhi

### Class X – Senior Education

March 2020

Central Board of Secondary Education (CBSE)

**Percentage: 85**

Ahlcon International School, Delhi

## Experience

### IBM Skills Build

June 2024 – August 2024

#### Data Analytics Intern

- Developed a robust data analytics framework to identify and predict the sources of contaminants in water bodies, leveraging advanced machine learning algorithms and statistical methods.
- Applied ML models and exploratory data analysis to predict and identify contamination in water bodies. Delivered actionable insights to aid environmental sustainability and clean water initiatives.

### Brain-O-Vision

January 2024 - March 2024

#### Software Development Intern

- Built a Learning Management System (LMS) using Java and Python.
- Integrated modules for students to view recorded lectures and attempt topic-wise quizzes.
- Focused on enhancing learning outcomes through interactive and scalable architecture.

## Projects

### IOT-FOG Based Healthcare System [Python](#) | [Machine Learning](#) | [Amazon Web Services](#)

August 2024 - Present

- Developed a machine learning-based system to predict diabetes and heart disease using Scikit-learn.
- Integrated edge and fog computing for real-time analytics and low-latency health monitoring.

### Krishi-Tech [Python](#) | [OpenCV](#) | [Scikit-learn](#)

July 2024 – August 2024

- Built a one-stop solution for farmers with features like crop prediction (Random Forest) and disease detection (Support Vector Machine).
- Deployed a custom-trained AI chatbot to provide real-time advisory and farming solutions.

### AI WasteGuard: Deep Learning for Waste Detection [Python](#) | [Computer Vision](#) | [OpenCV](#)

March 2024 – April 2024

- Designed a computer vision model using YOLOv6 on sonar imagery to detect waste in water bodies.
- Contributed to environmental monitoring through AI-powered Sonar image analysis.

## Skills

**Languages:** Python, Java, C/C++, SQL, Go

**Data Science:** Machine Learning, Data Analysis, Deep Learning, Computer Vision, NLP, Generative AI, Big Data

**ML Tools and Frameworks:** TensorFlow, PyTorch, Scikit-Learn, Tableau, Pandas, NLTK, Hugging Face, PySpark

**Big Data Technologies:** Apache Hadoop, Apache Spark, Apache Kafka, R Language, Microsoft Excel

**Cloud Platforms:** Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

## Positions of Responsibility

### Web Developer, Student Development Cell, GGSIPU

08/2023 - Present

- Developed official university website using HTML, CSS, JavaScript, MySQL and PHP.
- Built a Student Feedback System using Node.js and PostgreSQL for backend automation.
- Orchestrated a tech-fest with 600+ participants, featuring coding competitions and a hackathon with Devfolio.

### Joint Secretary, IEEE-USAR Chapter

04/2023 – 09/2024

- Coordinate and oversee chapter events and initiatives, enhance member engagement, and contribute to the promotion of technical education and research collaboration.

### General Secretary, Ek Bharat Shrestha Bharat & Viksit Bharat Club, GGSIPU

04/2023 – 09/2024

- Leading efforts to promote cultural integration and national unity through diverse events and programs, fostering a greater understanding among students from different states.

### Class Representative, AI-DS, USAR

08/2022 - Present

- Actively representing the interests and concerns of classmates, facilitating communication between students and faculty, and organizing class-related activities.