Srijan Khadka

Aspiring Data Engineer | SQL & ETL Developer
Bhaktapur, Nepal

+977-9861112541 | srijankhadkajr11@gmail.com | portfolio | github | LinkedIn ,

EDUCATION

Kathford International College of Engineering, Tribhuvan University, Nepal **2020-2025**

Bachelor of Engineering in Electronics, Communication, and Information Engineering **(76.19%)**

EXPERIENCE

EShikshalaya Edutainment - Nepal **Jan 2025 – May 2025**

Chief Executive Officer

- Progressed from Volunteer to CEO through roles as Chief Trainer and Head of IoT.
- Launched the EShikshalaya Innovation Kit, an educational robotics and electronics kit for school STEM learning.
- Designed and led the SEE Success Sutra course, a structured academic support program for SEE (Grade 10) students.
- Oversaw the development of an online learning platform with 1500+ students.

RoboKath - Kathford International College of Engineering , Nepal **May 2023 – Apr 2024**

Project Supervisor and Mentor

- Led training programs for 100+ students on robotics fundamentals and embedded system design.
- Supervised hands-on projects using Arduino, Raspberry Pi, and sensor-based automation.
- Mentored junior trainers and managed team coordination for technical workshops and competitions.

The BotMinds Robotics Team - Nepal **Jan 2022 – Present**

Co-Founder & Robotics Engineer

- Founded and led a competitive robotics team that secured 55+ national and international titles.
- Represented Nepal at IIT Bombay, IIT Patna, and other top institutions in robotics competitions.
- Promoted STEM education through outreach programs, inspiring over 500 students across Nepal.

ACADEMIC & TECHNICAL PROJECTS

Databricks Medallion Architecture E-Commerce Pipeline (Bronze–Silver–Gold) **Dec 2025**

Self-Directed Data Engineering Project Project Link

- Built an end-to-end e-commerce pipeline on Databricks using Spark and the Medallion Architecture.
- Ingested raw data into the Bronze layer and processed Silver/Gold layers using PySpark transformations.
- Created analytics-ready tables and simple dashboards using Delta Lake and Databricks SQL.

Technologies: Databricks, Spark, PySpark, Delta Lake, Medallion Architecture, DataFrames, Lakehouse

SQL Data Warehouse & ETL Pipeline Using Medallion Architecture (Bronze–Silver–Gold) **Nov 2025 – Dec 2025**

Self-Directed Data Engineering Project Project Link

- Built an end-to-end SQL Data Warehouse following the Medallion Architecture with Bronze, Silver, and Gold layers.
- Ingested raw CRM and ERP datasets into the Bronze layer using BULK INSERT and automated stored procedures.
- Cleaned, transformed, standardized, and merged data in the Silver layer with advanced T-SQL logic and data mastering rules.
- Designed analytics-ready Gold layer tables, including dimensions and fact tables for reporting and BI use cases.

Technologies: SQL Server, T-SQL, Stored Procedures, BULK INSERT, ETL, Data Modeling

Deep Learning Based Real Time Waste Segregation Using Robotics Arm   **Aug 2024 – Mar 2025**

Final Year Engineering Project

- Designed and implemented a real-time smart waste segregation system using YOLOv9 for object detection.
- Used Raspberry Pi 4B for image processing and classification, and Arduino Uno to control a robotic arm.
- Integrated conveyor belt mechanism for automated waste intake and sorting.

Technologies: YOLOv9, Python, OpenCV, Raspberry Pi, Arduino

CERTIFICATIONS

- **AWS Academy Graduate** – *AWS Academy Cloud Foundations Issued by Amazon Web Services (AWS) [link](#)*

- **Relational Database Certification** – *FreeCodeCamp.org [link](#)*
  Covered SQL, data modeling, schema design, and relational database principles.

- **SQL(Advanced)** – *HackerRank [link](#)*

- **Programming for Everybody (Getting Started with Python)** – *Coursera [link](#)*

- **What is Data Science?** – *Coursera [link](#)*

- **CanSAT Training Program** – *NAST Nepal (Trained by Orion Space)*
  Hands-on experience with telemetry systems, sensor integration, and satellite payload simulation.

- **Basic Electronics Training** – *RoboKath, Kathford International College of Engineering*
  Focused on circuit theory, breadboarding, and electronic component handling.

- **Arduino Training** – *RoboKath, Kathford International College of Engineering*
  Covered embedded C programming, sensor interfacing, and microcontroller-based system design.

SKILLS

- **Programming:** Python, SQL, C/C++
- **Databases:** Microsoft SQL Server, PostgreSQL, MySQL
- **Data Engineering:** ETL Pipelines, Medallion Architecture (Bronze–Silver–Gold), Data Modeling (Star Schema), SQL Stored Procedures, BULK INSERT, Data Warehousing, Databricks, PySpark
- **Cloud:** AWS (Cloud Foundations)
- **Machine Learning & CV:** YOLO, OpenCV, TensorFlow, Scikit-learn
- **Tools & Platforms:** Git, GitHub, Linux
- **Web (Basic):** HTML, CSS, JavaScript
- **Hardware (Additional):** Arduino, ESP32, Raspberry Pi

ACHIEVEMENTS

- **Secured 55+ robotics titles** across 35+ national and international competitions
- **Recipient of the Golden Jubilee Scholarship** from the **Indian Embassy in Nepal** for academic excellence during undergraduate studies.