

Nir Singh

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Education

Bachelor of Information Management (BIM), Tribhuvan University, Nepal

CGPA: 3.91 / 4.00 | **Year:** 2024

Graduated as Department Topper

Focus Areas: Information Systems, Programming, Fundamentals of AI

High School, Major in Computer Science, Omega International School

CGPA: 3.76 / 4.00 | **Year:** 2019

Research and Work Experience

Teaching Assistant – C Programming, King’s College Nepal (Nov 2025 – Present)

- Assist in undergraduate laboratory instruction and tutorial sessions.
- Grade assignments and prepare structured learning materials.
- Provide academic mentoring in computational logic and problem-solving.

Research Associate, Nepal STEM Alliance (Oct 2025 – Present)

- Conducted cross-sectional research on AI literacy and digital inequality in Kathmandu.
- Designed survey instruments and performed quantitative statistical analysis.
- Authored the research paper “**Digital Divide 2.0: Exploring AI Knowledge and Adoption Gaps in Kathmandu.**”

Student Services, Nepal STEM Alliance (Oct 2025 – Present)

- Organized academic webinars and supported students with academic and scholarship guidance.
- Managed communication workflows for international scholarship applicants.

Frontend Developer, Stockinery Pvt. Ltd. (Oct 2024 – Mar 2025)

- Developed financial portfolio management tools and responsive business websites.
- Built a mobile music player application.

MERN Stack Developer, eKagajpatra Pvt. Ltd. (Apr 2024 – Jan 2025)

- Designed a prototype website for manyconsultancy.com.
- Enhanced functionality and features of ekagajpatra.com

Awards & Honors

- Bachelor’s Degree Topper (CGPA 3.91) [**Topper in TU Affiliated Shanker Dev Campus**]
- Krishnaram Joshi Medal for Academic Excellence [**For Securing Highest GPA in Faculty**]
- High School Topper (**1st Rank**), Management Stream with Computer Science Major

Technical Skills

Programming: JavaScript, Python, C, Java

Web Technologies: HTML5, SCSS, React, Next.js, Node.js, Express.js

Databases: MySQL, MongoDB

Artificial Intelligence: CNN, RNN, LSTM, PyTorch, Model Optimization (Optuna)

Tools: Git, GitHub, Figma, VS Code

Research & Technical Projects

- **Cat or Not:** Logistic regression classification model using NumPy.
- **Diabetes Indicator:** Machine learning model developed with PyTorch and optimized using Optuna.
- Fashion-MNIST **CNN Classifier**.
- LSTM-based **Next Word Prediction Model**.
- **Self-Ordering System for Luma Restaurant:** QR-based menu system with POS integration. *[tech stack : Django, Reactjs, SQLite]*
- **Curbside:** Delivery service and account management platform. *[tech stack: html, css, js, sql, php]*

Community Engagement & Outreach

- Participated in a **tree plantation program in Lubhu**, organized by **Mahalaxmi Municipality Ward 8** on Environment Day, contributing to roadside tree planting to promote environmental conservation.
- Volunteered for **Annapurna Chamber Orchestra – Concert Series II**, supporting concert operations and contributing to the growth of orchestral culture in Nepal as part of the country's first orchestra initiative.
- Conducted community-level **girls' education and financial literacy awareness programs in Lumbini**, engaging local communities to promote educational access, financial awareness, and long-term empowerment for girls.
- Volunteered at a **K–12 Computer Science and Technology Conference in Butwal**, organized as a **CSR initiative by Nepal STEM Alliance**, supporting **informative sessions** and **speaker-led discussions** to raise awareness about **STEM education** and the **future of learning in Nepal**.

Reference

Narayan GC

Lecturer & Project Supervisor

Shanker Dev Campus

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Diperson Shrestha

Head of Academics,

Nepal STEM Alliance

Email: academics@nepalstemalliance.edu.np