

Batsal Bhusal

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EDUCATION

- Pulchowk Campus, IOE** | Lalitpur, Nepal 2022 – 2026 (Expected)
B.E. in Electronics, Communication and Information Engineering
- SOS Hermann Gmeiner School** | Bhaktapur, Nepal 2020 – 2021
+2 Science (GPA: 3.68/4)
- Occidental Public School** | Kathmandu, Nepal 2018
SEE (GPA: 3.75/4)

PROJECTS

- SarkariSathi - Digital Assistant for Government Works** 2026
Tools: Python, TypeScript, BAAI/bge-m3, RAG
 - Developed a bilingual RAG chatbot using **bge-m3** embeddings to automate Nepali government service inquiries.
 - Built a template engine to auto-generate official *Nibedan* (letters), streamlining ward-office workflows.
- ResuMatch - AI Resume Filter** 2025
Tools: Python, spaCy, Scikit-learn
 - Built an NLP pipeline using **spaCy** NER to extract skills and rank candidates via Cosine Similarity.
 - Automated resume screening to increase matching precision and reduce manual HR review time.
- HomeCam - IoT Security System** 2024
Tools: YOLO, TensorFlow Lite, Python
 - Deployed **YOLO** object detection on legacy mobile hardware using **TensorFlow Lite** for edge inference.
 - Optimized computer vision performance for low-latency monitoring on resource-constrained devices.

SKILLS

- Languages:** Python, C/C++, TypeScript, JavaScript, SQL
- AI & ML:** RAG, YOLO, TensorFlow Lite, spaCy, Scikit-learn
- Web & DB:** Node.js, HTML/CSS, MySQL, Vector Databases
- Tools:** Git, Linux (Ubuntu), LaTeX

LEADERSHIP EXPERIENCE

- Elected Member - Free Students' Union (FSU)** 2024 – Present
Pulchowk Campus, IOE
 - Elected by **1,162 votes** to lead student welfare and digital transformation initiatives.
 - Directed the development of the **Official FSU Website** and a **Discord Server** for 2,000+ students.
- President - 13th Executive Committee** 2024 – 2025
GAP Pulchowk
 - Managed a multidisciplinary team to execute strategic campus events and professional development workshops.

CERTIFICATIONS

Samsung Innovation Campus: Python Certification (2023)

OTHER INFORMATION

Languages: Nepali (Native), English (Professional)

Interests: Coding, Trekking, Literature