Kabin Giri

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EDUCATION

- **Advanced College of Engineering and Management** — Tribhuvan University
  Bachelor of Engineering in Computer Engineering — *March 2021 – April 2025*

- **Triton International SS College** — High School
  Major: Biological Science — *2018 – 2020*

SKILLS SUMMARY

- **Languages**: C, C++, Python, Java, and JavaScript
- **Proficiencies**: Spring, SpringBoot, Angular
- **Frameworks**: Spring, SpringBoot, Hibernate, Angular, nodeJs
- **Database**: SQL, PostgreSQL, and Mongodb

EXPERIENCE

- **Fellowship At e-Sewa** — Major Project, Tribhuvan University
  Project Lead — *July 2024 - Present*
  - **AI-Assisted eSewa for Visually Impaired Individuals**: This project aims to develop an AI-assisted eSewa (electronic payment) platform specifically tailored to the needs of visually impaired individuals. By integrating AI technologies such as natural language processing (NLP), speech recognition, and machine learning (ML), the platform seeks to provide an accessible and intuitive interface that enables visually impaired users to perform electronic transactions independently and securely.

- **Project Association for Computer and Electronics** — Kathmandu, Nepal
  Junior Web Developer — *2022 - 2023*
  - **Web Development**: PACE- club under Computer Department, I collaborated with my team to develop the website of the club using HTML, CSS and JS
  - **Workshops**: Attended and organized various workshops like Git and GitHub, web technologies.
  - **HEX-CTF Winner**: Won the Capture the Flag Competition organized by HEX-Himalaya.

- **Advanced Robotics Club** — Kathmandu, Nepal
  Software Lead and Treasurer — *March 2023 - Present*
  - **Technorion 2023**: Organized Technorion Nepal - 2023 (zonal qualifier of Techfest) biggest techevent in IIT Bombay. Represented Nepal and attended Techfest, IIT Bombay.
  - **Dissertation Advisor**: Guided junior students and fellows for various software and hardware projects.

PROJECTS

- **Comparative Analysis of Deep Learning Techniques for Multi-Organ Segmentation in CT-images.** 2023
  Medical Imaging
  - This study presents a comparative analysis of two prominent deep learning architectures, U-Net and SegResNet, for the task of multi-organ segmentation in CT(Computed tomography) images. The primary objective is to assess the performance of these algorithms in accurately delineating multiple organs within the same image slice.

- **E-Commerce Backend Using SpringBoot** 2024
  Backend Development
  - Developed a shopping cart backend using Spring Boot and Spring Security with JWT for secure authentication and authorization. The project involved creating and mapping entity classes for products, categories, and carts, implementing CRUD operations, and building service and controller layers to handle business logic and client requests.

- **BolaNepal: Website to Collect Nepali Datasets** September 2024
  Backend Development
  - It is a supporitve project for the fellowship at e-Sewa. Through this website, nepali voice of different dialets is collected for improving ASR systems.

- **Book Social Network**   Full Stack Development
  Angular, SpringBoot   *July 2024 - Present*
  - Book-Social-Network-Full-web-application-SpringBoot-Angular-Docker-Keycloack

- **Shortest Path Finder using Dijkstra Algorithm**   Minor Project, Tribhuvan University
  Object Oriented Programming   *2022*
  - Simple Console based application using C++ to find the shortest distances between capital cities of each district of Bagmati Province.