Gaurav Giri

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Summary

Experienced Full Stack Developer proficient in designing and implementing machine learning models. Seeking growth opportunities with a reputable company.

Education

Kantipur Engineering College	2021-Present
Bachelor in Computer Engineering	*Dhapakhel, Lalitpur*
FuseAI Fellowship	2022-2023
Machine Learning — Deep Learning — Natural Language Processing — Computer Vision	*Kathmandu, Nepal*
SOS Hermann Gmeiner Higher Secondary School	2018-2021
+2 Science	*Sanothimi, Bhaktapur*

Experience

Leapfrog — Apr 2023 – Dec 2023
Student Partner — *Kathmandu, Nepal*

- Participated in various training and mentorship sessions, actively involved in team software projects and assignments.
- Attained broad expertise in tech leadership, software development life cycle, including product design, project management, AI, quality assurance, development, and DevOps standards.
- Revamped UI and added a freelancing feature to the existing MeroJob Platform.

Anmup Online — Feb 2020 – Present
Full-Stack Developer — *Surkhet, Nepal*

- Created robust microservices, automated data scraping with BeautifulSoup and Selenium, and deployed them through FastAPI, facilitating the scalability of services to other applications.
- Developed visually appealing and highly functional mobile applications for both government and non-government systems using Flutter, and released the applications on the PlayStore.
- Collaborated with ML Engineers to create an ID-Card Classifier and contributed to data collection and processing.

Projects

Smart-Lawyer | *React.js, FastAPI, LangChain, Pinecone, Docker, Git/Github*

- Developed Smart-Lawyer as part of the Leapfrog Student Partnership Program, an innovative legal assistance platform that enables users to address legal queries through chat with a bot trained on the Constitution of Nepal 2072.
- Contributed as a backend developer, handling authentication and containerization along with language model training.

SnapTag: *Ctrl+F for your handwritten notes* | *OpenCV, Scikit-Learn, PyTorch, Flutter, SQLite, SpaCy, Figma, LaTeX*

- Working on an ongoing academic project that leverages OCR and NER to allow users to find specific keywords efficiently in their handwritten notes using the SnapTag mobile application.
- Developed an image processing pipeline that involves document autocropping and segmentation, and created a base classifier model.

Mathemagica | *Flutter, Flame*

- Created a game that secured victory in a Hack-A-Week hackathon, utilizing Flutter and the Flame Engine.
- The game engages users with mathematical challenges, requiring them to solve questions by actively interacting with the game to keep the character alive and navigate through hoops of correct answers.

SeeFood | *Pytorch, FastAPI, Flutter*
- Developed a food allergen recognizer mobile application that uses a CNN classifier model to classify Nepali Food Images and lists out possible allergens in it.
- It aids tourists who may be unfamiliar with the ingredients used and could potentially have allergies.

Cartoonify Image | *Streamlit, Pytorch*
- Researched and implemented an inference model for Neural Style Transfer by training a neural network.
- Allows users to transfer the style of one image to the content of another image.

MeroJob Revamped | *React.Js, Django Restframework, MySQL, Figma*
- Participated in Leapfrog Revampathon and worked as a backend developer.
- Created a backend system for the freelancing feature in the revamped Merojob platform.
- Contributed to documentation and presented the prototype during the event.

Early Heart Attack Disease Prediction | *Flask, Bootstrap, Scikit-Learn, Matplotlib, Numpy*
- Performed EDA on the dataset containing various risk factors for heart disease along with hypothesis testing.
- Trained ML models on the dataset and generated a final model using a voting classifier with an accuracy of 91.8%.
- Created a user-friendly website using Bootstrap and integrated the model.

Participations

KEC Computer Club | *Executive Member*
- Working as a Computer Club Executive at Kantipur Engineering College.
- Collaborated with the team to organize different events, workshops, competitions, and talk-shows.
- Mentored and volunteered in technical training sessions.

Google Developer Group Kathmandu | *Design Volunteer*
- Volunteered as a designer for Google I/O 23 and Google Devfest 23.
- Actively participated in event meetings and worked as an event organizer during the event day.

Awards and Certifications

Academic Scholarships
- Awarded scholarships from Kantipur Engineering College for semesters III, IV, and V due to attaining the highest ranking in board examinations.

Frogtoberfest
- Rewarded as one of the top open-source contributors during the Leapfrog Frogtoberfest Event.

Locus Hack-A-Week
- Participated in a 7-day hackathon and won in the Game-Development Category by creating an immersive mathematical game.

Hult Prize IOE 2023
- Successfully competed, leading our team to become on-campus finalists in Hult Prize IOE 2023. Worked collaboratively on a startup idea centered around the theme of "Redesigning Fashion" and delivered a compelling pitch.

IEEE Can you C?
- Demonstrated "ChatChamber," a first-semester project developed entirely in C. Implemented sockets, threads, and networking using low-level APIs, and designed a sleek chatroom UI using the NCurses library.

Technical Skills

Languages: Python, Javascript, C/C++, Dart, PHP, Bash, SQL, VHDL, HTML, CSS, SCSS
Technologies: TensorFlow, PyTorch, Scikit-Learn, Docker, Matplotlib, Bootstrap, Flutter, QT, Django, Flask, Mongo, React.js, Express.js, Node.js, Git/Github, Firebase, Google Cloud Platform, Postman, Linux
Concepts: Operating System, Virtualization, Containerization, Web Hosting, CyberSecurity, Cryptography, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Agile Methodology, Cloud Computing, Github Actions