

# Amrit Regmi

## Associate Software Engineer

A highly motivated and results-driven professional with over 1 year of experience in programming, AI, and web development. Equipped with strong problem-solving skills and a passion for continuous learning, I am committed to leveraging my expertise to drive impactful solutions. My focus is on developing innovative AI models and scalable web applications, with a keen interest in staying at the fore front of emerging technologies. With a positive attitude and a collaborative approach, I aim to be a valuable contributor to the success of any team and organization I work with.

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## Experience

### Associate Software Engineer, Bajra Technologies, Kathmandu

July 2024 - Present | Full time

Working with Flask and Natural Language Processing (NLP) to develop and optimize software solutions.

Contributed to the creation of a data entry and review platform, conducted code reviews, and provided guidance to fellow developers to enhance code quality and team productivity.

### Senior AI Trainee, Bajra Technologies, Kathmandu

April 2024 - July 2024

Focused on machine learning projects using PyTorch and Pandas, enhancing data processing and model training efficiency.

Collaborated with team members to improve STT model's performance and deliver actionable insights.

Gained hands-on experience in libraries such as NumPy, Pandas, PyTorch, HuggingFace and LangChain, assisting in various projects related to data analysis and machine learning.

### Python Trainee, Bajra Technologies, Kathmandu

Jan 2024 - April 2024

Gained hands-on experience in Python programming through collaborative efforts on various web development projects.

Acquired knowledge in software development practices, Agile methodologies, version control systems, and database management techniques.

### Frontend Web Developer, Eastern Hawk Solution Pvt. Ltd.

Jan 2024 - April 2024

Enhanced the user interface of two existing client websites by utilizing Bootstrap, HTML, and CSS.

Collaborated with the EHS team to implement design updates based on client feedback, improving overall user experience.

## Skills

### Technical Skills

AI Model Development  
Web Application Development  
API Design and Integration  
Version Control  
Cloud Services(AWS, GCP)

### Other Skills

Agile Methodologies  
Problem Solving  
Team Collaboration  
Effective Communication

### Tools

JavaScript  
Flask  
FastAPI  
PostgreSQL  
PyTorch  
Huggingface  
NumPy  
Pandas  
Langchain  
AWS  
GCP

## Projects

### E-Bazar

- An Android app built using Kotlin to facilitate communication between buyers and sellers.
- Utilized Firebase for real-time database management and secure user authentication.

### Nepali Speech-to-Text

- Fine-tuned a Wav2Vec2 model for accurate audio-to-text transcription.
- Implemented KenLM to improve text output and grammar, reducing Word Error Rate (WER) from 26 to 15.66.

### Chatbot and Chat Widget

- Built a chatbot with different features like model switching, PDF processing, and retrieval-augmented generation (RAG) in Nepali and English.
- Developed a chat widget for easy integration into any website.

### Data Entry and Review Platform

- A platform that allows users to edit and track Nepali data, while admins can view users, approve submissions, and manage data entries.

## Education

### Bachelors in Computer Engineering

Madan Bhandari Memorial Academy Nepal  
2018 - 2023

### Higher Secondary Level (Science)

Greenland International School  
2015 - 2017

## Languages

Nepali  
English  
Hindi