

Sangam Parajuli

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EDUCATION

Thapathali Campus, Institute of Engineering, Tribhuvan University

Bachelors in Computer Engineering

April 2022 – April 2026

Kathmandu, Nepal

EXPERIENCE

Wiseyak Inc.

AI Research Intern – Multilingual Speech Processing

December 2025 – March 2026

- Contributing to the Speech team in building multilingual end-to-end Automatic Speech Recognition (ASR) and Text-to-Speech (TTS) systems with support for English, Nepali, Hindi, and Maithili.
- Led data refinement pipelines to ensure high-quality, clean training corpora for multilingual ASR model development.
- Performed domain classification to organize and categorize speech data across diverse topics, improving model generalization and robustness.
- Drove continuous improvement of ASR models through iterative experimentation, error analysis, and fine-tuning across all supported languages.

PROJECTS

LLM from scratch

Python & PyTorch

[GitHub](#)

- Developed a transformer-based language model from scratch using PyTorch including core components like multi-head self-attention, layer normalization, and feed-forward block.
- Reproduced the GPT-2 architecture with adaptable hyperparameters to load pretrained weights.
- Implemented and integrated top-k sampling and temperature sampling during inference.
- Made a configurable architecture with custom training support via autoregressive loss, gradient clipping, etc.

Graphical Content Recognition with Editable Charts and Layout Retention

Python, Detectron2, PaddleOCR, OpenCV, PyTorch

[GitHub](#)

Jupyter Notebooks

- Built a machine learning model to detect, extract, and reconstruct graphical elements like charts and tables from document images, preserving the original layout.
- Utilized Python with Detectron2 for object detection, PaddleOCR for text recognition, and OpenCV for image processing.
- Developed custom algorithms to accurately extract and recreate editable graphical content, improving precision over existing methods.

Sathi: A Social Media App

Django, HTML/CSS/JS, Bootstrap5

[GitHub](#)

PostgreSQL, Render

- Built a full-stack application with a Django backend and a responsive frontend using HTML, CSS, JavaScript, and Bootstrap5.
- Implemented core features like user authentication, posting updates, and connection management, eliminating algorithmic feeds for simplicity.
- Deployed the application on Render with PostgreSQL, ensuring scalability and reliable data storage.

CERTIFICATIONS

- [Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning \(DeepLearning.AI\)](#)
- [Supervised Machine Learning: Regression and Classification \(DeepLearning.AI\)](#)
- [Data Analysis with Python \(IBM\)](#)

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, C#
- **Frameworks & Libraries:** Qt, Django, PyTorch, Flask, PaddleOCR, Detectron2, OpenCV, NumPy, pandas, TensorFlow
- **Tools & Platforms:** Git, GitHub, Render, Supabase
- **Other:** Game Development (Unity), Data Handling, HTML/CSS/JavaScript