Rikesh Silwal Email : silwalrikesh1@google.com
LinkedIn, Github, Medium

Skills

- **Programming Languages**: Python, C++, SQL
  Programming Frameworks: PyTorch, Huggingface, Pandas, NumPy, Matplotlib, Scikit-Learn
  Technologies: Machine Learning, Deep Learning, Natural Language Processing, MLOps, Docker, Git, AWS, Azure, Linux
  Languages: Nepali(Native), English(Semi-Professional Proficiency), Hindi

Experience

- **Ekghanti Services** Kathmandu, Nepal
  AI Researcher *Sep 2023 - Present*
  - **Literature Review**: Review 20+ Automatic Speech Recognition Modeling and Speech Synthesis papers.
  - **Modeling**: Develop transformer-based ASR and TTS models.

  NLP Developer
  - **Literature Review**: Review 20+ Automatic Speech Recognition Modeling and Speech Synthesis papers.
  - **Modeling**: Develop transformer-based ASR and TTS models.

  MLOps
  - **Literature Review**: Review 20+ Automatic Speech Recognition Modeling and Speech Synthesis papers.
  - **Modeling**: Develop transformer-based ASR and TTS models.

Projects

- **Nepali ASR Model**: Data Collection, Data labeling, Model Training, Deployment
- **Nepali TTS Model**: Data Collection, Data labeling, Model Training, Deployment
- **Data Engine**: Use of MLOps concepts and tools to automate data collection, labeling, training, evaluation and deployment of models.

Projects

- **SOTA Nepali ASR Model Review Paper**: Data Collection, Data labeling, Model Training, Deployment
- **Nepali ASR Model**: Data Collection, Data labeling, Model Training, Deployment
- **SOTA Nepali TTS Model Review Paper**: Data Collection, Data labeling, Model Training, Deployment
- **Nepali TTS Model**: Data Collection, Data labeling, Model Training, Deployment

Education

- **Nepal College of Information Technology, Pokhara University** Lalitpur, Nepal
  Bachelor of Engineering in Software Engineering; GPA: 3.51 *Jan. 2019 – Sept. 2024*
  - **Thesis**: Nepali Sign Language into Nepali Speech with the use of SOTA TTS mdoels
  - **Relevant Courses**: Data Structures and Algorithms, Software Engineering Fundamentals, Artificial Intelligence and Neural Networks