PRAFULLA SHRESTHA

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SUMMARY

I am a passionate and driven Computer Engineering student specializing in artificial intelligence and deep learning. With a strong foundation in programming, machine learning frameworks, and software development, I have successfully undertaken projects that include brain MRI segmentation and sign language translation. I excel in problem-solving, collaboration, and learning new technologies, leveraging my skills to develop innovative solutions. My commitment to continuous learning and my ability to adapt to new challenges allow me to contribute effectively to team success in dynamic environments.

EDUCATION

Advanced College of Engineering and Management

Affiliated to Tribhuvan University (T.U.)   Kathmandu, Nepal

Bachelors in Computer Engineering   **2020 – 2025 (Expected)**

SKILLS SUMMARY

- **Languages:** Python, C/C++, SQL, HTML/CSS, shell scripting
- **Frameworks:** Bootstrap, Django, TensorFlow, PyTorch, YOLOv7, DeepLab, NumPy/Pandas, Scikit-learn, Keras
- **Tools:** Git/GitHub, Jupyter Notebook, Matlab, Elastix, Visual Studio Code (VS Code), Kaggle
- **Platforms:** Google Colab, Kaggle, Windows, Ubuntu, RedHat
- **Soft Skills:** Problem-Solving, Collaboration, Communication, Time Management, Continuous Learning

PROJECTS

Brain MRI segmentation (Ongoing)

For the major project of my engineering course, me and my group are

- Segmenting 3D brain MRI images with the help of DeepLab.
- Segmenting and registering brain MRI images with the help of Atlas and elastix.
- Comparing the two approaches for research purposes.

Sign Language Conversion

For the minor project of my engineering course, me and my group built a translator to

- Translate American Sign Language to English language using YOLOv7 and CNN-LSTM fusion model.