**Safal Bhandari**

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# INTERNSHIPS

**NLP/LLM Engineer** April 2024 - July 2024

Sulove Technologies | Butwal, Nepal

* Worked on building and fine-tuning **large language models (LLMs)** for various NLP tasks such as text summarization, sentiment analysis, and entity recognition using **PyTorch** and **TensorFlow**.
* Developed and deployed **Natural Language Processing (NLP)** pipelines, integrating models like **BERT, GPT, and T5**, to enhance language understanding and processing capabilities in real-world applications.
* Implemented custom **text preprocessing** and feature extraction techniques such as tokenization, lemmatization, and POS tagging, improving the overall accuracy of NLP models.
* Leveraged **transfer learning** to adapt pre-trained models for specific business use cases, achieving high performance with minimal training data.
* Conducted in-depth research and experiments to optimize model performance by applying **hyperparameter tuning, model pruning**, and **distillation** techniques.

# Projects

**Plagiarism Detection Tool** Python | Pytorch | Tensorflow | MongoDB [View in GitHub](https://github.com/SafalBhandari12/Plagarism-Detection-tool)

* Designed and implemented algorithms using **cosine similarity**, **TF-IDF**, and **word embeddings** for effective plagiarism detection.
* Utilized **NLP techniques** with models like **BERT** and **Spacy** to identify rephrased and paraphrased content.
* Developed efficient text preprocessing pipelines, including tokenization and stop-word removal.
* Optimized model performance for high accuracy in plagiarism detection by fine-tuning on diverse text datasets.
* Achieved significant accuracy with precision and recall metrics.

**Publication Summary generator for Faculty Member Showcase** MERN | NLP | LLM [View in GitHub](https://github.com/SafalBhandari12/Summary)

* Built a central database to crawl academic sources like **Google Scholar** and **DBLP** for real-time publication data retrieval.
* Implemented **NLP techniques** to generate accurate, well-formatted summaries of academic publications.
* Developed a user-friendly interface for faculty members to customize and manage their profiles.
* Integrated data synchronization features to ensure profiles are automatically updated with the latest publications.
* Employed machine learning algorithms to classify publications based on department and school for tailored summary generation.
* Ensured data consistency and normalization across diverse sources for reliable report generation.

# CERTIFICATIONS

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| --- | --- |
| * **Supervised Machine Learning** | * [View](https://coursera.org/verify/6TSS4DT6H64Y) [credentials](https://www.coursera.org/account/accomplishments/verify/2H8FQ93KDHSL) |
| * **Advance Learning Algorithm** | * [View](https://www.credly.com/badges/28c4a0ff-0144-42e1-8dce-2659c5de1bb3/linked_in_profile) [credentials](https://www.coursera.org/account/accomplishments/verify/R28XQUDVDKGJ) |
| * **Unsupervised Machine Learning** | * [View](https://coursera.org/share/c5b97bca9c514fefd7dbe0570d337e05) [credentials](https://www.coursera.org/account/accomplishments/verify/2R99R72SFV4Q) |

# Hackathons and Competitions

* Participated in 2024 NASA International Space Apps Challenge
* Participated in Technocratss 4.0 – Coding Competition
* Participated in 2024 Smart India Hackathon (SIH)

# Education

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| --- | --- |
| **Bachelor Of Technology (B.Tech.) | CGPA: 9.17**  Sharda University | Running  (2023-27) |

# Skills

Tensorflow| Pandas| Numpy| PyTorch | LLM | NLP | CNN|Python |django |mysql |html |Tailwind CSS | CSS| software development| DBMS| Streamlit| ubuntu | C | C++ | Java Project Management | Communication | Leadership | Time Management | Adaptability | Problem Solving | Teamwork |Creativity