




# Divya Mani ADHIKARI

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 GitHub |  LinkedIn |  Website



## Summary

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Research Engineer with over 2.5 years of experience in data analysis, machine learning—focusing on natural language processing—and web development. Holds a Master's in Data Science and Artificial Intelligence from Universität des Saarlandes. Passionate about developing and applying Large Language Models while exploring their interpretability.





## Professional Experience

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### Wissenschaftliche Hilfskraft (Part-time)

Jan 2023 - Mar 2025

UNIVERSITÄT DES SAARLANDES, SAARBRÜCKEN, GERMANY

- Built a pipeline to preprocess tweets (deduplication using MinHash, regex-based features extraction)
- Trained a Covid death classifier using Pytorch/HF Transformers for semi-supervised dataset labeling
- Conducted Correlation analysis of tweets time series; Research led to a publication at ICWSM (AAAI); ; 
- Built LLM agents-based RAG pipelines to automate survey questionnaire generation and pretesting
- Evaluated generation quality through human assessments; Research resulted in a short paper at ICTD; ; 

### NLP Research Engineer (Full-time)

Aug 2020 - Sep 2022

DIYO.AI, KATHMANDU, NEPAL

- Developed Golu, a retrieval-based open-domain chatbot for Nepali, that engages with 100+ daily Facebook users
- Created platforms for conversational data annotation, chatbot evaluation, and data visualization
- Created tools for Nepali Transliteration, Sentiment Analysis, POS tagging, and Question Answering
- Designed and Developed Diyochat, a real-time omnichannel messaging platform with analytics dashboard

### Fullstack engineer (Intern)

Jan 2019 - Apr 2019

NIPUNA PRABIDHIK SEWA, POKHARA, NEPAL

- Built a custom Inventory system for Retail using Django; Documented system design specifications
- Contributed to the system design of the Pokhara Sky Sports ERP system

## Education

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### Masters of Science in Data Science and Artificial Intelligence; GPA: 1.7

Oct 2022 - Mar 2025


UNIVERSITÄT DES SAARLANDES, SAARBRÜCKEN, GERMANY

- **Thesis:** *Automated Generation and Pretesting of Surveys using LLMs*
- Tutored the Statistical Natural Language Processing course
- Awarded the DeutschlandStipendium scholarship 2023-2024

### Bachelors of Engineering in Computer Engineering; GPA: 76% (Top 10%)

Dec 2015 - Dec 2019

PASCHIMANCHAL CAMPUS, TRIBHUVAN UNIVERSITY, POKHARA, NEPAL

- **Capstone Project:** Zippy : A priority ranking-based email recommendation system.
- Executive member of Innovative Computer Engineering Students Society (ICES); Volunteer at Open Knowledge Nepal

## Skills

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**Programming Languages** *Experienced:* Python *Beginner:* C++

**Data Science** Pytorch/Transformers | LLMs | LangChain | Matplotlib | Pandas | Scikit-learn

**Web Development** Django/DRF | Vue JS | Flask/FastAPI | PostgreSQL/MongoDB

**Tools** Git | Docker | AWS | Linux

**Languages** *Native:* Nepali *Fluent:* English, Hindi *Beginner:* German (A2)