

Mahima Dhakal

Software Engineer | Data Science

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MSc Data Science student at TU Dortmund with 2+ years of software engineering experience, specializing in **backend systems, data pipelines, and AI** and passionate about building intelligent, data-driven and scalable software systems.

PROFESSIONAL EXPERIENCE

Werkstudent - Software Engineer · Volkswagen Infotainment Aug 2026 – Present
Bochum, Germany

- Develop, maintain, and optimize full-stack internal web applications hosted on a central enterprise platform in an Agile/Scrum environment.
- Containerize microservices and deploy technical tools using Docker for system reliability and streamline deployment pipelines.

Software Engineer · Growthzilla Inc. Feb 2024 – May 2026
Remote, California, USA

- **Architected an Agentic AI Assistant** using Cloudflare MCP servers and LLMs to automate dynamic query handling, system configuration retrieval, and parameter adjustment.
- Engineered data synchronisation pipelines between accounting and salon management systems with advanced retry logic, achieving **full data consistency** across daily transaction and check-in logs.
- Engineered a **predictive review management engine** utilizing user behavior data and system analytics to algorithmically identify and prompt users likely to submit high ratings, optimizing public brand reputation.
- Integrated XplorePay (formerly Clearent) payment gateway into existing booking systems, unifying accounting and transaction workflows across enterprise clients.
- Built **automated workflows** and real-time communication features using WebSockets and message-passing protocols, reducing manual intervention and improving system responsiveness.
- Designed and deployed scalable web applications using **React, Express, Python, SQL, and Redis**.

Backend Engineering Intern · UXCam May – July 2023
Kathmandu, Nepal

- Developed and maintained **RESTful APIs in Python** for a mobile analytics platform, enabling scalable server-client interactions with hands-on experience in optimizing query performance and database control.

EDUCATION

M.Sc. Data Science · TU Dortmund University 2026 – Present
Dortmund, Germany

B.E. Computer Engineering, Cum Laude, 82.44%, Top 1% · Institute Of Engineering, 2019 – 2024
Pulchowk Campus, Tribhuvan University
Kathmandu, Nepal

High School, Major in Physics and Mathematics , Cum Laude, GPA 3.86/4, All Nepal 2017 – 2019
Rank 2nd · Tilottama Campus
Butwal, Nepal

SKILLS

Languages	C, C++, Python, JavaScript, TypeScript, Php
Frameworks & Libs	Laravel, React, Express, Django, NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow
Tools & Platforms	Nodejs, Git, Docker, Linux, AWS, Snowflake, Fivetran, Redis, Power BI, MS Office Suite
Databases	MySQL, PostgreSQL, MongoDB
Data & AI	Machine Learning, NLP, Deep Learning, LLM Integration, Data Visualisation

PROJECTS

Grievance Recognition via Text/Speech · Undergraduate Thesis

BERT, TensorFlow, wave2vec, Django, Python, SQL

Developed an **NLP pipeline** to automatically classify Nepali text and speech complaints into government service categories, conducting a comparative analysis of traditional ML models and modern deep learning architectures.

Yoggis, AI Yoga Trainer · Minor Project

MediaPipe, Scikit-Learn, Django, Python, PostgreSQL

Built a web-based AI yoga trainer using **computer vision** for real-time posture detection and personalised feedback.

Maitrika, Rural Healthcare Platform · 36-Hour Hackathon

Node, React, Express, JavaScript, MongoDB

Designed a platform connecting female community health volunteers with physicians in remote areas, with health event tracking.

Data Warehouse Migration · Freelance

Fivetran, Snowflake, AWS S3, PostgreSQL, Power BI

Migrated heterogeneous data sources into a **centralised Snowflake warehouse** using Fivetran; built **Power BI dashboards** to enable unified reporting and data-driven decision-making across teams.

HONOURS & AWARDS

Winner, Hack-A-Week, Digital Health Category · LOCUS, National Technological Festival 2023

Won a **week-long national-level hackathon** competing against university teams across whole Nepal.

Golden Jubilee Scholarship · India-Nepal Diplomatic Scholarship Program 2020 – 2024

Four-year annual grant awarded by the Embassy of India for exceptional academic performance throughout undergraduate study.

Full Scholarship Recipient · Institute of Engineering, Pulchowk Campus 2019

Merit scholarship for securing **128th rank among 15,000 candidates** in the national engineering entrance examination.

National Science Award, Provincial Topper · Ministry of Science & Technology, Government of Nepal 2019

Recognised on the **7th National Science Day**; GPA 3.86/4, **All Nepal Rank 2nd** in High School.

FELLOWSHIPS & TRAINING

Scholar, Fourth National AI School · Nepal Applied Mathematics & Informatics Institute May–Jun 2023 (NAAMII)

Competitively selected for an intensive AI/ML programme in deep learning, transformers, computer vision, NLP, and GNNs.

Scholar, Samsung Innovation Campus · Samsung Electronics · Global Tech Education Dec 2022–Mar 2023 Initiative

Selected for Samsung's **flagship global upskilling programme** delivered across 40+ countries; advanced coursework in AI, Big Data, and Python; capstone project addressing real-world social challenges.

LEADERSHIP & COMMUNITY

Creative Director · LOCUS 2024, Nepal's 20th National Technological Festival 2023–2024 Kathmandu, Nepal

- Led cross-functional teams across design, content, photography, and videography for **Nepal's largest student-run tech festival**.
- Organized pre-events including **Girls To Code, CodeCamp, and Hack-A-Week**, managing logistics, teams, and timelines simultaneously.
- Spearheaded *Children in Technology* across **all 7 provinces** in partnership with WorldLink (Nepal's largest ISP), reaching **100+ schools** to promote digital literacy and internet safety.

Tech Mentor & Instructor · Women Leaders in Technology (WLiT) 2025 Pokhara Nepal

- Designed and facilitated hands-on workshops in **JavaScript, Node.js, and Express**; mentored teams through an **intensive hackathon**.

LANGUAGES

Nepali, Native **English**, Proficient (C1) **German**, A2, Actively learning, committed to reaching professional fluency