

LABBI KARMACHARYA

Data Scientist | Visiting Lecturer

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SUMMARY

- Over 3 years of experience in analytics, machine learning, and data visualization that has driven significant improvements in engagement and sales metrics across multiple sectors.
- Experienced in curriculum development and lecturing, having created and taught advanced courses in Data Structures, Algorithms, and Big Data for B.Sc. IT programs.
- Worked with cross-functional teams to design solutions as well as conducted workshops which has reached over 500 professionals and students with advanced data visualization techniques and big data insights.
- Recognized for developing top-rated IT and AI projects and contributing to mobile security advancements through applied research.
- Founder of Digital Kala, a digital literacy project for underrepresented individuals, which has successfully reached over 300 individuals.

EXPERIENCE

Research Fellow | Equitech Futures

09/2024 – Now

- Collaborate with external stakeholders to develop and deploy analytical tools and dashboards, particularly for projects involving water utilities in Kenya.
- Assist in teaching Data for Impact Lab and Data and Decisions courses to 17 young innovators from 9 countries by leading some lab sessions, accumulating assignments, providing feedback, and conducting office hours to support students.

Module Leader of Big Data and Data Mining | Islington College, Nepal

09/2024 – Now

- Designed and currently leading the Big Data and Data Mining module to create coursework that blends theoretical knowledge with practical applications.
- Conduct lectures and lab sessions for over 60 students to make sure they gain a solid understanding of data analysis, processing techniques, and mining algorithms.
- Evaluate student performance through continuous assessments, projects, and exams, adapting teaching strategies to optimize learning outcomes and student engagement.

Data Scientist | CloudFactory (Sprout Technology Pvt. Ltd, Nepal)

08/2022 – 09/2024

- Led identity fraud detection analysis using anomaly detection, clustering, and classification techniques which led to improved fraud detection and prevention measures.
- Led supervised learning models, including XGBoost, to predict future worker performance based on their current experience.
- Collaborated with cross-functional teams, including data engineers, business analysts, and product managers, to identify business problems, design analytics solutions, and communicate findings.

Visiting Lecturer of Data Structure and Algorithm | Apex College, Nepal

04/2024 – 8/2024

- Developed the curriculum for the Data Structures and Algorithms course for second-semester Bachelor of Science in Information Technology (B.Sc.IT) students
- Currently teaching over 50 second-semester B.Sc.IT students and evaluating student progress through exams, projects, and continuous assessments.

Data Visualization and Designer | Xabit Analytics, Nepal

11/2021 – 09/2022

- Contributed to deploying a mobile app recommendation system for Himalayan Java, a franchise of the Nepali Coffee brand, using algorithms to boost sales and revenue by analyzing the behavior of 10,000 active monthly users.
- Conducted data analysis to report on product data, creating monthly client application overviews and customer analyses focused on segmentation, flow, and conversion as per client needs

Data Visualization and Design Intern | Xabit Analytics, Nepal

09/2021 – 11/2021

- Designed and developed data visualizations for social media, which resulted in a 15% increase in engagement and improved brand recognition.
- Cleaned and integrated data from multiple sources to ensure accurate and consistent data-viz content.
- Led workshops with four partner organizations on big data, imparting data visualization techniques, tools, and best practices to over 100 participants.

EDUCATION

BSc (Hons) in Computing | Islington College (awarding body London Met.), Nepal 09/2020-10/2022

- Degree Result: First Class Honors (1:1)
- Ranked 26th and placed in the top 3.4% in a cohort of 762 students.
- Subject: Advanced Database System Development, Software Engineering, Artificial Intelligence, etc
- Served as Student Academic Representative (StAR) for two consecutive years: 2019 and 2020

School Leaving Certificate, High School | St. Mary's College, Nepal 08/2017-05/2019

- Subject: Computer Science, Maths, Economics and English
- Result: Grade A (CGPA: 3.36)

PROGRAMMING SKILLS

Language: Python, SQL, C, Javascript

Technologies: AWS, Pytorch, Jira, Posthog, DBT, Streamlit

VOLUNTEERING AND ADVOCATING

Founder, Digital Kala: Digital Awareness Project | Digital Kala 8/2023 – Present

- Co-led a Digital Awareness project in the rural areas of Nepal, specifically in the Dang and Lumbini regions, where we collaborated with schools and local NGOs to reach over 300 individuals, and conducted sessions in city schools, thereby reaching more than 50 students.
- Developed an online platform to disseminate information about scholarships and grants in Nepal to students with almost 1000 new users weekly.
- Recognized with the Davis Peace Project Award and the SBCM Award for this project.

Workshop Facilitator and Mentor | Multiple organizations 01/2023 – Present

- Engaged as a workshop facilitator for over 10 institutions mostly related to data and technology. This includes mentoring at events such as the Code for Nepal Hackathon and the Shequal Foundation All Female Hackathon, as well as facilitating sessions on AI for managers at Cloudfactory.

Executive Member | Association of St. Mary's Alumnae Nepal (ASMAN) 01/2023 – 01/2025

- Dedicated to promoting child and women's rights, and advancing awareness of health and the environment, while collaborating with fellow executives to achieve organizational goals with more than 800 beneficiaries.

PROJECTS

Spam Detection Model for Feature Phone | Dataset of Africa and Europe ML Model

- Currently working on this project to develop a spam detection model tailored for feature phones

Nepalese Scholarship Hub | Nepalesescholarshiphub.com Website

- Co-developed Nepalese Scholarship Hub, a website serving as a one-stop hub for Nepalese students seeking scholarships, with over 1000 new users every week.

Chess Engine | Github Repo Min-Max Algo

- Developed a chess engine utilizing the Python programming language and implemented "Adversarial Search and Games" principles to enhance strategic decision-making.

ACHIEVEMENTS AWARDS

Smishing Detection for Feature Phone White paper | Equitech Futures 12/2023

Collaboratively authored a white paper on AI detection for smishing in feature phones across Africa and worked with four individuals from different countries to address unique challenges in advancing mobile security.

Fully Funded Applied Data Institute Scholarship | Equitech Futures 09/2023

Awarded a fully funded scholarship valued at US \$9500 to participate in a 10-week program tailored for young professionals with STEM and computational science backgrounds at the Applied Data Institute by Equitech Futures.

Overall Best Final Year IT Project | Islington College (awarding body London Met.), Nepal 12/2022

Developed and presented an IT project that won the overall best final year IT project award out of more than 750 projects in competition at Islington College.

Runner-Up in Final-Year AI Module | Islington College (awarding body London Met.), Nepal 12/2022

Achieved the position of runner-up in Artificial Intelligence module among a graduation cohort of 440+ students.

