



Bijay soti

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● ABOUT ME

Academic high-achiever with a **First Class Honours** degree in Information Technology (CGPA: 3.96/4.0). Proven track record in AI/ML engineering through international internships and open-source collaborations. Passionate about leveraging data science for social impact, with technical proficiency in deep learning and NLP. Seeking to advance research capabilities through an Erasmus Mundus Joint Master program. description of yourself here...

● WORK EXPERIENCE

BUSINESS ANALYST – YAGYA.AI – 07/10/2024 – 30/05/2025 – KATHMANDU / DHULIKHE, NEPAL

Business or Sector: Information and communication | **Department:** Research and development

- Conducted strategic research for AI solution expansion.
- Drafted proposals, engaged clients, and facilitated development cycles.
- Worked on scalable AI agent strategies for enterprise applications.

ARTIFICIAL INTELLIGENCE ENGINEER – ICEBRKR (VIRTLY COMPANY), SWITZERLAND – 03/03/2026 – 28/08/2026 – KATHMANDU, NEPAL

- Developed real-time AI tools for virtual communications.
- Built recommendation models and user behavior classifiers.
- Integrated ML pipelines for adaptive user experiences.

ARTIFICIAL INTELLIGENCE ENGINEER – OMDENA – 03/07/2023 – 25/09/2026 – REMOTE

- Built NLP tools to analyze gender and social representations.
- Created pipelines for sentiment classification and labeling.

● EDUCATION AND TRAINING

23/08/2021 – 25/10/2024 Kathmandu, Nepal

BACHELOR OF INFORMATION TECHNOLOGY WITH TECHNOPRENEURSHIP (HONS). CG Institute of Management (Affiliated with Limkokwing University, Malaysia)

- **Artificial Intelligence & Data Science:** Artificial Intelligence , Decision Support System , Probability & Statistics , and Mathematics for Computing.
- **Programming & Software Engineering:** JAVA Programming I & II , Web Programming with JAVA , System Analysis & Design , and Software Project Management.
- **Database & Infrastructure:** Database Systems , Database Design & Management , Data Communication & Networking , and Information Security.
- **Technopreneurship & Finance:** Entrepreneurial Finance , Entrepreneurship , Business Planning & Idea Generation , Technology & Innovation , and Introduction to Finance.
- **Professionalism & Research:** Major Project 1 & 2 , Ethics & Professional Conduct , and Information Technology Law.

Website <https://cgim.edu.np/> | **Final grade** 3.96 / 4.0 (First Class Honours) | **Level in EQF** EQF level 6

- **Advanced Mathematics & Science:** Mastery of calculus and algebra for algorithmic logic; Physics and Chemistry principles.
- **Biological Foundations:** Study of organic systems providing a conceptual basis for bio-inspired systems.
- **Communication:** Proficiency in English and Nepali, essential for technical documentation and local research.
- **Analytical Reasoning:** Developing problem-solving skills and experimental methodology in laboratory settings.

Field of study Science | **Final grade** 3.62 CGPA | **Level in EQF** EQF level 4

- **Technical Foundations:** Introduction to Computer Science and Additional Mathematics.
- **General Sciences:** Compulsory Science, Mathematics, and Health & Environment studies.
- **Linguistic & Social Studies:** English, Nepali, and Social Studies focused on logical expression and civic knowledge.

Final grade 3.55 GPA | **Level in EQF** EQF level 2

NEURAL NETWORKS AND DEEP LEARNING DeepLearning.AI

This course covered the foundational concepts of deep learning. I learned to build, train, and apply fully connected deep neural networks.

Key Skills & Topics:

- Understanding the major technology trends driving Deep Learning.
- Building a deep L-layer neural network from scratch using **Python** and **NumPy**.
- Implementing forward propagation and backpropagation to optimize model weights.
- Practical application of vectorization to accelerate neural network training.

Level in EQF EQF level 3

IMPROVING DEEP NEURAL NETWORKS: HYPERPARAMETER TUNING, REGULARIZATION, AND OPTIMIZATION DeepLearning.AI (via Coursera)

A technical deep dive into the "black box" of deep learning, focusing on the practical aspects of making a neural network perform well on real-world data.

Key Skills & Topics:

- **Regularization Techniques:** Implementing **L2 regularization** and **Dropout** to prevent overfitting.
- **Optimization Algorithms:** Mastering advanced optimization methods including **RMSprop**, **Adam**, and **Momentum** to speed up gradient descent.
- **Hyperparameter Tuning:** Systematic strategies for tuning learning rates, batch sizes, and layer dimensions.
- **Batch Normalization:** Understanding how to stabilize and accelerate training by normalizing layer inputs.

Level in EQF EQF level 3

APPLIED DATA SCIENCE LAB WorldQuant University

- Completed eight end-to-end data science projects
- Data retrieval from files, SQL and NoSQL databases, and APIs
- Demonstrated data exploration and cleaning skills
- Created functions and ETL pipelines for training set preparation
- Built supervised and unsupervised machine learning models
- Developed visualizations to explain data and model predictions to non-technical audiences

Level in EQF EQF level 5

DATA SCIENCE AND MACHINE LEARNING DIPLOMA Vrit Technologies

I was able to complete my 120 hours of Diploma course, where I learned about various Data science theories and tools along with Machine Learning to make me enough capable of doing various Data Science and Machine Learning

projects.

Level in EQF EQF level 3

● **LANGUAGE SKILLS**

Mother tongue(s): **NEPALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	B2
HINDI	C2	C1	C1	C1	B2
FRENCH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

business analytics | interpret financial statements | statistics | Databases (MongoDB MySql PostgresSql) | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | tools for software configuration management | digital data processing | artificial neural networks | AI agents, LLMS, RAG, Vector database | operate relational database management system | Git/Github, Docker, Gitlab | Torch, Keras, Tensorflow, Matplotlib, Numpy, Scikit-learn