

RAJAN GHIMIRE

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Location: Brampton, ON

EXPERIENCE

STEM Instructor

City of Brampton

Toronto, Ontario

Apr 2024 - Jul 2024

- Delivered engaging instruction in Python programming and VEX IQ Robotics to students aged 10-14.

Digital Sales and Data Analyst

Trifecta Digi Media

Remote, USA

Mar 2023 – Nov 2023

- Conducted data analysis to boost supermarket sales.
- Increased alcohol sales by 8.81% through strategic promotions.

Machine Learning Engineer

E.K. Solutions Pvt. Ltd.

Lalitpur, Nepal

Apr 2022 - Nov 2023

- Developed multilingual resume parser and semantic job matcher with high accuracy.
- Built an invoice parser achieving 95% precision and 92% cell coverage.
- Created an orientation-free object detection model for medical kits.

Natural Language Processing Trainee

E.K. Solutions Pvt. Ltd.

Lalitpur, Nepal

Dec 2021 - Apr 2022

- Implemented various ML and DL models using PyTorch and Hugging Face for sentiment and news classification.
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SKILLS

Expert

- **Languages:** Python
- **Packages:** PyTorch, TensorFlow, Sklearn
- **Frameworks:** FastAPI, Flask
- **DevOps:** Docker, Kubernetes
- **Tools:** Power BI, Excel

Proficient

- **Languages:** C/C++, C#, CUDA
- **Packages:** Pandas, Matplotlib, Scipy, OpenCV
- **Frameworks:** Django, Unity
- **Databases:** PostgreSQL, MySQL, MongoDB
- **DevOps:** Git, Jenkins
- **Cloud:** AWS, GCP, Azure

Beginner

- **Languages:** Matlab, LaTeX, Vim
- **Packages:** PyTorch Lightning, JAX
- **Databases:** Spark, Hadoop, Snowflake
- **DevOps:** MLflow, SageMaker, Airflow, Datadog

EDUCATION

Graduate Certificate in Artificial Intelligence & Machine Learning

Lambton College

Toronto, Ontario
Jan 2024 - Oct 2025

Bachelors in Computer Engineering

Kantipur Engineering College

Lalitpur, Nepal
Dec 2017 - Apr 2022

PROJECTS

Chat2Plot

Dec 2023 - Present

- Implemented a system to generate interactive charts from tabular data using LLMs.

CaptionCraft

Nov 2023 - Dec 2023

- Created a pipeline for automated captioning, speaker diarization, and multilingual translation.

End-to-End Nepali OCR

Feb 2023 - Apr 2023

- Developed an OCR system for handwritten Nepali text with high precision and recall.

NepaliLy

May 2021 - Jan 2022

- Developed a tool for enhanced Nepali text processing with transliteration and spell-checking features.
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ACHIEVEMENTS

- Merit-based scholarship from Tribhuvan University for 4 semesters.
 - Winner of LITEHACK 2020 for hands-free computer operation project.
 - Secured first position in multiple hackathons and technical exhibitions.
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PUBLICATIONS

- Ghimire R, et al. "Leveraging Transliteration, Spelling Detection and Correction, Parts of Speech Tagging and Next Word Prediction for Effective Nepali Typing," KEC Conference Proceedings, 2022.
 - Ghimire R, et al. "Eye Controlled Virtual Keyboard Using Convolutional Neural Networks," KEC Conference Proceedings, 2021.
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EXTRA-CURRICULAR ACTIVITIES

- Mentored 40 students in an NLP workshop at IIMS College.
 - Delivered a 3-day ML workshop to over 50 undergraduate students.
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