

Nasla Maharjan

AI Engineer

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Driven by a strong interest in transforming data into strategic insights with real-world business impact. Experienced in designing machine learning models, extracting actionable insights, and developing scalable data-driven solutions. Proficient in Python, R, and SQL, with hands-on experience using big data tools such as Hadoop and Spark. Strong foundation in neural networks, clustering, decision trees, and data optimization, focusing on real-world business impact and data-driven decision-making.

EXPERIENCE

Junior AI Engineer

Lalitpur

Galli Express

Aug, 2024 - Present

- Designed and implemented an image processing pipeline to process and integrate 360-degree images into mapping systems, enhancing visual data representation.
- Designed and implemented a privacy-focused system using YOLOv8 for detecting billboards and license plates, and DeepFace for facial recognition, followed by anonymization of detected regions using blurring techniques.
- Optimized the pipeline for real-time performance, ensuring efficient processing and compliance with privacy regulations.
- Integrated OCR (Optical Character Recognition) solutions for text classification and key text extraction, streamlining data retrieval.
- Conducted data analysis on user demographics to derive actionable insights, enabling targeted engagement strategies and improved decision-making.

AI Intern

Lalitpur

Galli Express

Jan, 2024 - Jul, 2024

- Gained hands-on experience with advanced models, including YOLO, SAM, and Grounding Dino.
- Labeled and cleaned data to ensure accurate model training.
- Managed databases using PgAdmin and generated precise house coordinates for address identification.

AI Trainee

Lalitpur

Info Developers

Sep, 2022 - Dec, 2022

- Developed a chatbot using Rasa for intelligent conversational interactions.
- Created a CNN model for efficient image classification tasks.
- Implemented text summarization with an SVM model and built a face-detection system for security applications.

EDUCATION

Bachelor of Science in Computer Science and Information Technology

Kathmandu

Prime College, Tribhuvan University

Oct, 2019 - Oct, 2023

- GIS workshop:** PostgreSQL was used to analyze the geographical data.
- MERN Stack course:** created an e-commerce website.
- Data science workshop:** visualized iris flower dataset.
- Computer vision workshop:** spleen segmentation with monai.

PROJECTS

TheSilentVoice

It is a two-way sign language assistance system that classifies sign language given through webcam and give text and speech as output, also takes input as text for speech and gives output in signed videos.

Heart Disease detection

Built predictive models using Logistic Regression (80% accuracy) and Random Forest (99% accuracy) for early heart disease detection.

Loan Default Prediction

Designed a Random Forest classification model to predict loan default risk on an imbalanced dataset. Achieved a ROC-AUC score of 75%, improving early identification of high-risk customers for financial institutions.

Customer Segmentation

Performed customer segmentation on bank client data using PySpark and K-Means clustering to identify actionable customer groups for targeted financial strategies.

ACHIEVEMENTS

Best Final Year Project

TheSilentVoice was the best final-year project of the year 2024.

TRAINING/CERTIFICATIONS

Generative AI with Large Language Models	2024
<i>DeepLearning.AI</i>	
Generative AI Fundamentals: Gained foundational knowledge and practical skills in generative AI, including cutting-edge applications and business use cases.	
Supervised Machine Learning: Regression and Classification	2024
<i>DeepLearning.AI and Stanford</i>	
Developed supervised ML models (regression, classification) using Python, NumPy, and scikit-learn.	
R for Researchers	2025
<i>Udemy</i>	
Certification in basic R programming, focusing on data analysis and statistical computing for research applications.	

AWARDS

Student of the Batch	Kathmandu, Nepal
<i>Prime College</i>	2024
Awarded for academic excellence, leadership, and outstanding contributions to the academic community.	

SKILLS

Python, NumPy, Pandas, R programming, SQL, pyspark, Hadoop(conceptual knowledge), Machine Learning Frameworks: Tensorflow, Pytorch, scikit-learn, Data visualization: Matplotlib, Seaborn, PowerBI, Key Concepts: Clustering, Neural Networks, Decision Tree, Data Optimization

REFERENCES

Rolisha Sthapit - Vice Principal IT programs	Raj Bikram Maharjan - CEO
Prime College	Galli Express
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