

NISCHAL MAHARJAN

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EDUCATION

HIMALAYA COLLEGE OF ENGINEERING

Bachelor of Electronics, Communication and Information Engineering

Relevant Coursework: Data Analysis, Software Engineering; Algorithms; Artificial Intelligence; Big Data.

Chyasal, Lalitpur

2019-2024

WORK EXPERIENCE

ROBOTECH NEPAL

Product Developer Intern

Kathmandu, NP

May 2024 – Aug 2024

- Integrated machine learning models with hardware to enable real-time responsiveness in systems.
- Engineered systems using OpenCV and Python, combined with microcontrollers like Arduino and ESP32, to develop gesture-controlled devices.

HEX 2023

Project Manager

Lalitpur, NP

Jun 2023 – July 2023

- Coordinated with cross-functional teams to implement Agile methodologies, improving project delivery timelines and enhancing collaboration across departments.
- Managed project scopes and resources effectively, leading to a 15% improvement in on-time project completions.

PROJECTS

Apple Leaf Disease Detection (2023)

- Built a full-stack application using Python, TensorFlow, Streamlit, and OpenCV for automating disease detection in apple leaves.
- Enhanced model accuracy with advanced data preprocessing and training techniques.

Flight Price Prediction (2024)

- Analysed flight price data and developed predictive models using Decision Tree and Random Forest Regressors.
- Pre-processed data, engineered features, and conducted exploratory data analysis to optimize results.

Twitter Sentiment Analysis (2024)

- Created a Python application utilizing the Tweepy library and NLTK for sentiment classification of tweets.
- Deployed the project using Flask to provide a web interface for real-time sentiment analysis.

Expense Tracker Application (2024)

- Built a dynamic expense tracker using React.js, enabling seamless addition, editing, and deletion of entries.
- Utilized React Hooks and Context API for efficient state management and streamlined data flow.

Face Recognition System (2024)

- Designed a Python-based face recognition system using OpenCV, showcasing computer vision expertise.

Web Scraper

- Developed a Python script to scrape product details, reviews, and prices using BeautifulSoup and Selenium.

SKILLS

Programming Languages: Python, HTML5, CSS3, JavaScript, SQL

Frameworks & Libraries: Bootstrap, ReactJS, Node.js

Tools: Git, GitHub, Visual Studio Code

Databases: MongoDB, MySQL

Methodologies: Agile Development, Design Thinking

ADDITIONAL

Certifications & Training: DataCamp: Data Analyst Track, Google: Digital Marketing & E-commerce (7 certifications), 60 Days of Learning Challenge by Leapfrog Technology Inc, AWS Knowledge: Cloud Essentials, Foundations of Project Management

Languages: Nepali, English; Conversational Proficiency in Newari

Volunteer Experience: Mentored participants in Arduino programming and sensor interfacing, earning praise for exceptional competence and invaluable expertise. Mentor, Himalaya Robotics Club (June 2023)