

Prajwal Chaudhary

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PROFESSIONAL SUMMARY

Computer Engineer and IT graduate specializing in Artificial Intelligence, with hands-on experience in machine learning, deep learning, and autonomous agent systems. Proficient in Python, SQL, PyTorch, and TensorFlow, with expertise in data preprocessing, feature engineering, and model evaluation.

EDUCATION

Macquarie University

Master of Information Technology in Artificial Intelligence

Sydney, Australia

July 2023 – June 2025

Nepal Engineering College, Pokhara University

Bachelor of Computer Engineering

Bhaktapur, Nepal

2018 - 2022

TECHNICAL SKILLS

Programming Languages: Python, C, R

Libraries and Frameworks: Django, Scikit-Learn, TensorFlow, Pytorch, Pandas, Matplotlib

Machine Learning and AI: Neural Networks, Reinforcement Learning, Boosting and Bagging Algorithms, LLMs

Databases: SQL, MongoDB

PROJECTS

Auto Agent ML: Autonomous, Language-Guided Machine Learning System

- Built a multi-agent system that automates the entire ML pipeline from exploratory data analysis (EDA) to model training and model evaluation using LLMs.
- Designed modular agents (EDA, Model Training, Code Verifier) coordinated by a central orchestrator for efficient execution.
- Eliminated reliance on skeleton code and external sources by dynamically generating executable Python code from user intent.

Deep Learning CNN Models for Diseases Classification in Cauliflower Leaves | Python, Tensorflow, Django, Flutter

- Developed an end-to-end solution for the detection and management of diseases and pests in cauliflower plant, including structured data storage and querying using SQL for experiment tracking and results analysis.
- Responsibilities included data preprocessing, feature engineering, image classification, and model training using transfer learning-based deep learning models for computer vision tasks. Achieved 93% final accuracy.
- Implemented hardware solutions for image capture, classification, and automated pesticide application.

WORK EXPERIENCE

Research Intern

Macquarie University

Feb 2025 – June 2025

Sydney, Australia

- Collaborated on a research project focused on training robots to perform real-world tasks, exploring AI-driven solutions for automation and task optimization.
- Collaborated on implementing a pipeline for real-time video processing and robot training using PyTorch.

PUBLICATIONS

- Ojha, T. R., Chaudhary, P., & Sharma, S. (2025). Deep Learning CNN Models for Diseases Classification in Cauliflower Leaves. *Journal of Artificial Intelligence and Capsule Networks*, 7(1), 32-50.
- Ojha, T. R., & Chaudhary, P. (2022). Enabling Extreme Programming (XP) in Global Software Development (GSD) Practice. *Journal of Advancement in Software Engineering and Testing*, 5(3), 1-11.

ADDITIONAL INFORMATION

- Google Advanced Data Analytics Certificate | January, 2025
- Language Proficiency: English (PTE 90/90)
- Visa Status: Australian Visa Subclass 485 - Full-time work rights