Pragyan Dhungana

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RESEARCH SUMMARY

Undergraduate AI researcher with a focus on healthcare applications. Lead author of EnsembleDx, an ensemble deep learning model for pneumonia detection (99.24% accuracy), published at IEEE ICDSBS 2025. Co-author of an endoscopy-based disease classification paper (98.80% accuracy) using U-Net, published at IEEE ICERCS 2024. Skilled in transfer learning, medical imaging, and explainable AI.

EDUCATION

Jain University | Department of Computer Science Engineering | Bangalore, India

Bachelor's in Computer Science Engineering, CGPA: 8.66/10 | 2021–2025

Relevant Coursework: Machine Learning, Data Engineering, Big Data Technologies, Distributed Systems.

National Examination Board (NEB) | Morang, Nepal

12th Standard, 85% | 2019-2021

ACADEMIC PROJECTS

EnsembleDx: Advanced AI for Pneumonia Detection

A cutting-edge ensemble deep learning model leveraging DenseNet121, MobileNet, and EfficientNet architectures to deliver high-precision pneumonia diagnosis from chest X-ray images using transfer learning.

Urban Taxi Trip Duration Prediction

Developed and optimized machine learning models to accurately forecast taxi trip durations, leveraging advanced feature engineering, data preprocessing techniques, and evaluation metrics to enhance prediction reliability.

Enhancing Breast Cancer Prediction

Conducted a comparative study of Logistic Regression, Random Forest, and KNN to predict breast cancer using the Wisconsin Diagnostic Breast Cancer dataset, optimizing diagnostic accuracy through advanced evaluation metrics.

RESEARCH PUBLICATIONS

1. Dhungana, P. (Lead Author)

"Ensemble Deep Learning Approach for Pneumonia Detection Using DenseNet, MobileNet, and EfficientNet with Transfer Learning"

2025 International Conference on Data Science and Business Systems (ICDSBS), IEEE

DOI: 10.1109/ICDSBS63635.2025.11031996

Achieved 99.24% accuracy using an ensemble deep learning model on chest X-ray images.

2. Dhungana, P. (Co-Author)

"Deep Neural Networks for Disease Classification from Endoscopic Imaging"

2024 International Conference on Emerging Research in Computational Science (ICERCS), IEEE

DOI: 10.1109/ICERCS63125.2024.10895860

Developed a U-Net-based model for endoscopic disease classification with 98.80% accuracy.

INTERNSHIP

Data Science Intern – Capabl Elite Techno Groups | Remote | 1 Month

- Built predictive ML models for taxi trip durations using urban datasets.
- Created data pipelines for large-scale preprocessing and transformation.

AWARDS AND ACHIEVEMENTS

■ 100% SII Scholarship

Awarded a full Study in India (SII) scholarship worth \$14,000 for pursuing a Bachelor's degree at Jain University.

TECHNICAL SKILLS

- Languages & Libraries: Python (ML, DL, NLP), NoSQL, ReactJS
- Cloud Tools: AWS (EC2, S3, Lambda)
- Other Interests: AI for healthcare, academic research, cloud-native development