

Amrit Pandey

[LinkedIn](#) · [GitHub](#) · amritsga123@gmail.com · [+1 6823672658](tel:+16823672658) · [Buffalo, New York](#)

EDUCATION

State University of New York at Buffalo

Masters in Artificial Intelligence

Buffalo, New York

Aug 2024 – May 2026 (Anticipated)

Thakur College of Engineering and Technology, Mumbai University

Bachelor of Technology, Artificial Intelligence and Machine Learning, CGPA: 8.8/10

Mumbai, India

2020-2024

SKILLS AND INTERESTS

Technical Skills: Python, R, NLTK, OpenCV, MongoDB, Power BI, Flask, JavaScript, Tailwind CSS, HTML, Bootstrap

Machine Learning & Data Science Libraries: Pandas, PyTorch, SciPy, NumPy, TensorFlow, Scikit-learn, Matplotlib

Specialized Techniques: Computer Vision (CV), Natural Language Processing (NLP), Generative Adversarial Networks (GANs), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Graph Neural Networks (GNN)

WORK EXPERIENCE

Technical Lead - Alternative Clinic, Mumbai

June 2023 – Sept 2023

- Developed and deployed an **AI-powered clinic portal**, increasing patient volume by **43%**, reducing reception workload by **18%**, and enhancing appointment scheduling efficiency by **60%**, improving the user experience.
- Designed an **interactive Power BI dashboard** for real-time data analysis, reducing review time by **30%**, automating data insights, enhancing decision-making, and improving diagnostic efficiency for doctors.

Artificial Intelligence Intern - VLine Infotech Pvt Ltd, Delhi

Jan 2023 - Apr 2023

- Developed a custom **OCR-driven ML model** to automate bank statement processing, improving text extraction accuracy by **15%**, reducing manual effort, and optimizing financial document handling at scale.
- Led preprocessing and annotation of **40,000+ financial documents**, reducing processing time by **20%**, while integrating **NLP and deep learning** to enhance document classification, parsing, and recognition performance.

PROJECTS

Automated Cheque Processing with Machine Learning

Mar 2024

- Computer Vision Integration: Utilized **OpenCV** and **OCR** techniques to extract key cheque details, including amount, date, and payee name, ensuring a **high extraction accuracy of 98%** in financial document processing.
- Machine Learning Model: Designed a **CNN-based fraud detection system**, reducing cheque processing time by **80%** while enhancing security, accuracy, and transaction validation for a fully automated process.

Neural Network Training and Comparison Framework

Nov 2023

- Deep Learning Model Evaluation: Developed an overarching framework for **training, benchmarking, and analyzing** multiple deep learning models, like **CNNs, RNNs, and GNNs**, to compare **performance on complex datasets**.
- Optimization & Performance Boost: Employed **hyperparameter tuning, dataset augmentation, and transfer learning**, resulting in a **30% increase in training efficiency** and **generalization** across various AI applications.

Automated Attendance System

July 2024

- Facial Recognition Integration: Built an AI-powered attendance tracking system using **OpenCV and FaceNet**, enabling **real-time face detection** and authentication with **high accuracy and minimal false positives**.
- Seamless Database & Web Interface: Integrated **Flask & MySQL** for **secure** and efficient attendance management, streamlining operations, and reducing **manual entry errors by 30%**, which improved scalability for **enterprise use**.

Predictive Modeling for Income Classification

Oct 2024

- Feature Engineering & Optimization:** Extracted key socioeconomic features (**age, education, occupation, marital status**) to enhance classification. Applied **Random Forest with hyperparameter tuning** for robust predictions.
- High-Performance Classification:** Achieved an **86% accuracy**, showcasing the model's effectiveness in income prediction for demographic and financial analytics, **enhancing decision-making in economic research**.

CERTIFICATIONS

- [Software Engineering Job Simulation, JPMorgan Chase & Co.](#)
- [AI on Microsoft Azure, Microsoft](#)
- [Foundations: Data, Data, Everywhere; Google](#)