

ADITYA CHATURVEDI

Machine Learning Engineer

+91-6397265125 @ chaturvediaditya910@gmail.com linkedin.com/in/adityachaturvedii New Delhi, India

SUMMARY

A passionate **Machine Learning Engineer** with a strong drive to apply cutting-edge **Computer Vision** and **Deep Learning** techniques to solve real-world challenges in medical imaging. Known for dissecting complex problems through first-principles thinking and crafting scalable, high-performance solutions. Skilled in **Python**, **PyTorch**, **MONAI**, and **OpenCV**, with a focus on innovation and continuous optimization. Experienced in leading small teams and driving research projects to impactful outcomes, including winning **first place in a deep learning hackathon**. Eager to bring expertise and leadership to a **Machine Learning Engineer** or **Manager** role, contributing to the future of AI in healthcare and beyond.

EXPERIENCE

Machine Learning Engineer

Proxmed Pty Ltd

10/2023 - Present Melbourne, Australia

- Developed and deployed a Deep Learning-based Brain Extraction Model for CT images, improving the accuracy and efficiency with Mean IoU 99.5 and DICE of 0.98.
- Leading a research-driven Stroke Detection project, contributing to cutting-edge advancements in early stroke diagnosis, with a research paper in progress for publication.
- Managed a team of 5 members, overseeing project coordination, providing mentorship, and fostering a collaborative environment to drive results.
- Contributed to team knowledge-sharing through regular discussions, code reviews, and collaborative learning initiatives.

Big Data Intern

MedTourEasy

12/2022 - 02/2023 New Delhi, India

- Improved data-driven decisions by {15%} through developing predictive models using Python and R for trend analysis.
- Conducted data cleaning and preprocessing, ensuring high-quality, structured datasets for model training and analysis.
- Participated in the development of automated pipelines for data extraction, transformation, and loading (ETL), improving overall data workflow efficiency.

EDUCATION

B.S. Data Science & Application

Indian Institute of Technology Madras

01/2020 - 01/2024 Chennai, India

B.Tech Computer Science Engineer (AI/ML)

Lovely Professional University

2020 - 2024 Punjab

VOLUNTEERING

Host & Moderator

DevDays

11/2021 - 12/2021

- Hosted and Moderated two events over the course of one month for the DevDays Events.
Flutterthon - A week-long event where close to 300 students participated to learn and deploy their apps using Flutter and Kotlin.

KEY ACHIEVEMENTS



First Prize, Deep Learning Hackathon

Awarded **₹20,000** cash prize for winning first place in a college-wide hackathon focused on deep learning, showcasing excellence in machine learning and problem-solving.



Mentee, ACM IKDD Summer School on Data Sciences

Selected as one of **50 students** from across India to attend the prestigious **ACM IKDD Summer School** at **IIT-Gandhinagar**. Received special appreciation for outstanding performance during the program.



Winter Student - Topics on Digital Trust, IIT Bombay

Among the cohort of 60 students of diverse backgrounds from entire country, ranging from PhDs, Masters and a few undergrad students.

PROJECTS

Brain Mask Extraction (Segmentation)

2023

Developed and implemented a robust and efficient algorithm using Image Processing Techniques and a U-Net based Architecture to automate brain region extraction from Brain CT Angiography (CTA) images as part of the hackathon.

- Received a cash prize of Rs. 10,000 for winning the hackathon

Air Quality Index Prediction Using PM 2.5

2023

Aggregated and prepped 8 years of Climate Data from Open Source Climate API.

- Achieved accuracy of 0.87 on training and testing dataset.

COURSES

EigenFaces: Dimensionality Matters in Machine Learning

Indian Institute of Technology Madras

Computational Social Science

Under Prof. Ponnurangam K, IIIT Hyderabad.

SKILLS

Machine Learning	PyTorch	OpenCV
Python	Git	Bash
		MONAI
		Java