

Chetan Aditya Lakka

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Profile

A results-driven AI and Machine Learning professional with hands-on experience in large language model (LLM) training, multimodal AI, and robotic perception systems. Skilled in leveraging data-driven optimization, deep learning, and computer vision to enhance model reasoning, spatial understanding, and behavioral prediction across real-world scenarios. Passionate about developing scalable, intelligent systems that bridge the gap between human cognition and machine intelligence through innovative research and applied engineering.

Technical Summary

Proficient in large language model (LLM) fine-tuning, multimodal AI, and reinforcement learning, with expertise spanning computer vision, human-AI interaction, and robotics-based reasoning systems. Experienced in designing and optimizing end-to-end model pipelines, integrating frameworks such as PyTorch, TensorFlow, Hugging Face, and LangChain to drive scalable, adaptive, and explainable AI solutions.

Professional

Turing, LLM Trainer (Full-time, Remote)  Sep 2025 | Palo Alto, CA
Contributing via Turing to advanced large language and vision model development for a top-tier AI research company, focusing on multimodal reasoning across robotics, egocentric perception, and interactive environments. I work on enhancing model cognition, spatial understanding, and behavioral prediction by analyzing complex human-AI and robot-environment interactions, applying data-driven optimization, human-in-the-loop evaluation, and scalable model refinement techniques to improve real-world performance and adaptive intelligence.

Google, AI-ML Virtual Intern Apr 2024 – Jun 2024
The Google AI ML Internship offers hands-on experience with cutting-edge technologies, mentorship from industry leaders, and a collaborative environment, fostering growth and innovation for aspiring machine learning professionals.

AWS, AI-ML Virtual Intern Sep 2023 – Nov 2023
As an AI/ML Virtual Intern, I work on cutting-edge machine learning projects, helping develop intelligent algorithms and models to solve complex problems and gain hands-on experience in the world of artificial intelligence.

Skills

Machine Learning & AI: Supervised / Unsupervised Learning · Deep Learning · Large Language Models (LLMs) · Multimodal AI · Reinforcement Learning · Computer Vision · NLP · Model Evaluation & Optimization · Human-AI Interaction

Programming & Frameworks: Python · TensorFlow · PyTorch · Keras · NumPy · Pandas · Scikit-learn · OpenCV · Hugging Face · LangChain · PyTorch Lightning

Data Engineering & Tools: Data Preprocessing · Feature Engineering · Data Visualization · SQL · JSON · Git · Jupyter · Colab · API Integration · RESTful Services

Software Development & Web: HTML · CSS · JavaScript · ReactJS · Node.js (MERN Stack – Familiar) · Flask · Cloud Deployment (AWS, GCP)

Research & Analytics: Explainable AI (XAI) · Model Interpretability · Statistical Analysis · Experiment Design · Prompt Engineering · Technical Documentation

Soft Skills: Analytical Thinking · Cross-Functional Collaboration · Technical Communication · Agile Development · Problem Solving

Education

B.Tech - Electronics and Computer Engineering,
Sreenidhi Institute Of Science And Technology

2021 – 2025

Research

CereBro: A Cloud-Integrated Android Application for Cognitive Disorder Screening

CereBro is a mobile app for early screening of autism, dyslexia, and dementia, combining on-device ML with cloud updates for accessible, offline, and real-time assessments through questionnaires, text analysis, and cognitive games.

Reverse Attribution: Explaining Model Failures via Counter-Evidence

Proposed a model-agnostic 'Reverse Attribution' (RA) framework to explain machine learning failures using counter-evidence. RA surfaces features suppressing the correct label, and introduces the Attribution-Flip score to measure explanation instability. Validated RA on text and vision benchmarks, showing improved diagnosis and calibration over SHAP and LIME.

Projects

Reverse Attribution, Machine Learning

Reverse Attribution (RA) is an explainability method that identifies features which mislead machine learning models by suppressing the correct output, helping diagnose why predictions fail.

Autism Detection, Machine Learning

Developed a machine learning model to predict autism spectrum disorder (ASD) in children based on behavioral and genetic data for early intervention and support.

Crop Detection, Deep Learning

Implementing deep learning models to accurately identify crop diseases from images, aiding farmers in timely disease management and enhancing agricultural productivity and sustainability.

CereBro, Android Application

CereBro is an intelligent mobile application designed for the early detection of neurological disorders like Autism, Dyslexia, and Dementia using different ways.

Essay Grading, Machine Learning

Developing a machine learning system for essay grading, assessing coherence, organization, grammar, and relevance to the prompt, enhancing efficiency and objectivity in educational assessment.

Portfolio, ReactJS

A personal portfolio site chetanaditya.tech

Organizations

The Techvision Club, Designing Head

2022 – 2024

I create engaging content for events and workshops, promoting technology and innovation as Designing Head

Royal Challengers Bangalore, Video Editor

Mar 2023 – May 2023

I craft inspiring and motivational mashup videos to boost the spirits of the players, elevating their performance on the field.

Ramakrishna Math, Volunteer

2021 – 2023

Involves selfless service, spiritual growth, and community engagement, fostering inner peace and harmony.

Certifications

Artificial Intelligence: Knowledge Representation And Reasoning, NPTEL

This course delves into representation formalisms and reasoning algorithms, progressing from propositions to first-order logic and beyond, with real-world problem-solving applications.

Awards

Hackathon Finalists, Knowvation Learnings

Achieved Top 4 in the Hackathon conducted by Knowvation Learnings as part of Team NPCs for our project "Autiscope - An Autism Detection Website."

Interests

- Following tech and business news
- Video Editing
- Poster Making