

# 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

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

2021 – 2025

## Research

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### **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

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### **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](https://chetanaditya.tech) [↗](#)

## Organizations

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### **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

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### **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

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### **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

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