

# AAKASHDEEP SRIVASTAVA

Goa, India

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## PROFESSIONAL SUMMARY

ML Engineer with 2+ years of experience in **end-to-end model development**, **computer vision**, and **AI pipeline automation**. Proven expertise in **model fine-tuning (PEFT/LoRA)**, **MLOps (MLflow, SageMaker)**, and deploying production ML systems with **99%+ accuracy**. Strong foundation in applied mathematics, **deep learning architectures**, and **computer vision (image classification, object detection)**. Certified **Azure Data Scientist Associate (DP-100)** with hands-on experience in model optimization, loss function tuning, and GPU-efficient training.

## EXPERIENCE

### Reclevo Infotech Pvt. Ltd.

Jun 2025 - Present

Co-Founder & Tech Lead

Goa, India

- Led cross-functional negotiations with government bodies to execute a research contract for the **SEATRACE** project, bridging the gap between public sector compliance and technical product delivery.
- Built **Reclevo** — a **Rapid Waste Disposal Platform** serving **5 user roles** (Businesses, Waste Collectors, Facility Managers, Drivers, and Guest Users) with **multiple React Native** frontends and a scalable backend powered by **GoLang Gin** microservices.
- Architected the core **React Native** mobile application backed by a high-concurrency **GoLang** microservices architecture, ensuring seamless data synchronization across **6 distinct user personas** (Waste Collectors, Facility Managers, Admins, etc.) with **99.9% system uptime**.
- Optimized fleet logistics for Standard Tipper Trucks by implementing **data-driven routing protocols** within the **Smart Waste Asset Management (SWAM)** platform, reducing fuel consumption and improving pickup turnaround time for bulk waste generators by **25%**.
- Established the strategic partnership structure with **Xphora AI**, aligning **AI-driven business goals** with operational realities to secure long-term capital and resource scalability.
- Streamlined back-office administration using **Power Automate** workflows to handle government notification processing, reducing manual data entry errors by **95%** and accelerating compliance reporting cycles.
- Engineered **Agentic workflows** using **OpenAI** and **Gemini APIs** to automate customer support interactions and waste categorization, reducing Level-1 support tickets by **60%** while maintaining high accuracy in user queries.

### EduGorilla Community Pvt. Ltd.

Jun 2024 - Sept 2025

AI Engineer

MLOps, PEFT, Python, AWS-Cloud, Nextjs

- Implemented **PEFT fine-tuning** for **Qwen-3B** using **Amazon SageMaker**, applying **gradient descent optimization**, **loss function tuning**, and **hyperparameter search** across 3-6 epochs while reducing **GPU memory** usage by **60%** compared to full fine-tuning.
- Collaborated with 3 engineering teams to implement **MLflow evaluation pipeline**, building **end-to-end AI pipeline automation** for model training, evaluation, and deployment, enabling cross-team **experiment tracking** for **100+ models**.
- Architected microservices-based **video generation pipeline** using **Gemini Pro**, **ElevenLabs**, and **Rhubarb Lip Sync**, processing **50+** concurrent requests with **98% viseme** accuracy for educational content.
- Automated exam notification system using **SmartScraper AI**, processing **1000+** government notifications daily with **99% accuracy**, increasing user engagement by **40%**.

### Krsta Consultancy Services LLP.

Oct 2023 - Jun 2024

Automation Engineer

Airtable, Zapier, Webflow, Figma

- Revamped website using **Figma/Webflow**, optimized admin dashboard with **Airtable automations** (response time to **0.5s**); boosted process efficiency by 15-25% via **Zapier/Stripe** integration for **80+ users**.

### Hindustan Urvarak & Rasayan Limited (HURL)

Jun 2022 - Aug 2022

Summer Engineering Intern

- Utilized DM-Plant blueprints to identify **3 critical issues** within the N-Pit area; analyzed **maintenance shutdown** data to pinpoint discrepancies under the Mechanical Project Manager.

### Indian Railways

Jun 2021 - Aug 2021

Summer Engineering Intern

NER Gorakhpur

- Analyzed **air brake systems in LHB railway coaches** (20+ components) for high-speed operations up to 160 km/h; documented **technical specifications & maintenance procedures** at Northern Eastern Railway's Mechanical Workshop.

## SELECTED PROJECTS

EduMate: Multi-Modal Learning Platform | Top 10 Hack2Skill AI for Impact

Dec 2024

- Built **image classification** and **object detection** pipeline for **real-time sign language recognition** using **CNN-based** models achieving **95% accuracy**, integrating **emotion detection** to support students with **autism** in understanding social cues and facial expressions.
- Engineered real-time **speech-to-image generation** system with canvas-based sketching, achieving 90% user satisfaction across **500+ voice commands** and reducing content creation time by 60%.
- Architected **Node.js/Express** backend with **WebSocket** integration, scaling to handle 100+ concurrent video streams while maintaining less than **100ms** latency for real-time **computer vision** interactions.

**AI/NLP TV Series Analysis System** | Python, Gradio, Llama3-8B

May 2024

- Analyzed favorite TV series using **AI, LLMs, & NLP** to extract themes, relationships, and character interactions.
- Implemented data scraping with **Scrapy**, created a character network with **SpaCy, NetworkX, & PyViz**, and developed a chatbot using **Hugging Face and Transformers**.

**Police PRM: Performance & Resource Management** | Karnataka Datathon2.0

Jun 2024

- Designed **PowerBI** analytics dashboard processing data from **50+ police stations**, reducing resource allocation time by **60%** and improving response time by **40%**.
- Implemented **Airtable**-based real-time tracking system handling **1000+** daily updates, reducing manual data entry by **80%** and enabling **5-minute** decision cycles.

**ReachifyMe Go-To-Market Strategy** | Product Space GenAI Hackathon

Jan 2025

- Led US market expansion strategy targeting **100+ paid users at \$14/month with 65% margins**; reduced CAC from **\$200 to \$50** through strategic mix of Reddit, podcasts, and referral programs.

## TECHNICAL SKILLS

**Computer Vision:** Image Classification, Object Detection, OpenCV, CNNs, Transfer Learning, Data Augmentation

**Languages/Libraries:** Python, Flask, Next.js, Node.js, Three.js, TensorFlow, NLTK, spaCy, Zustand, PyTorch


**Visualization Tools:** Power BI, MS Excel, Tableau

**Database:** MySQL, NoSQL (MongoDB), Vector Databases (ChromaDB)

**Other Tools:** Git, Docker, MLflow, Data Version Control (DVC), WebRTC

**Certifications:** Microsoft Data Analyst (PL-300), Azure Data Scientist Associate (DP-100), Machine Learning Operations Specialization

## RELEVANT COURSEWORK & RESEARCH WORK

Machine Learning	Deep Learning	Generative AI
Predictive Data Modeling	Computer Vision	Natural Language Processing
Data Visualization & Reporting	AWS & Azure Cloud	<a href="#">V-Frame Octocopter</a> 

## LEADERSHIP / ACHIEVEMENTS

### Technicals

2022 - 2023

Super Coordinator

IIT Madras

- **Secured 5 Lakhs in sponsorships** for 18 hackathons; cultivated relationships with **15+** industry leaders as **Corporate Relations Executive**; led team of **6 designers** to grow newsletter engagement by **50%**.

**Ranked 2nd out of 900 teams** for PRM App in Karnataka State Police Datathon'24

Hack2Skill

**Certificate of Excellence** in ML Challenge 2.0

IIT Madras

**Winner** of Product Space GenAI Hackathon For GTM Strategy

Product Space

**Winner** of Sustainability Hackathon For Carbon Offset Tracking

GIM'25

**Winner** of Innovation for Education Equity Hackathon For LFA Studio

HackerEarth'26

## EDUCATION

**Institute of Technology, Guru Ghasidas Vishwavidyalaya (CFTI)**

Aug 2019 - 2023

Bachelor of Mechanical Engineering | CGPA: 8.8/10

**Indian Institute of Technology, Madras**

Aug 2021 - 2024

Bachelor of Data Science & Applications | CGPA: 8.9/10

**Jawahar Navodaya Vidyalaya**

Jun 2018

12th CGPA: 8.8/10

**St Joseph High School Gorakhnath Gorakhpur**

Jun 2016

10th CGPA: 7.8/10