

# MANIDEEP REDDY MANDHADI

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## PROFESSIONAL SUMMARY

Applied Machine Learning scientist specializing in computer vision (CLIP models) and generative AI solutions, with expertise in risk assessment and statistical analysis. Proven experience in developing production-grade ML systems using AWS services including Bedrock. Track record of implementing scalable architectures and collaborating with cross-functional teams to deliver business impact.

## EXPERIENCE

**ML Developer**  
ConvoSearch

Oct 2024 - Present  
*San Francisco, CA*

- Developed and optimized custom CLIP models for e-commerce risk assessment, implementing statistical analysis frameworks to improve accuracy by 40%
- Architected scalable multi-GPU training pipelines using PyTorch and CUDA, processing 1M+ daily queries with automated risk detection
- Implemented production-grade generative AI solutions using AWS Bedrock and custom LLMs for enhanced pattern recognition
- Built comprehensive monitoring systems using Weights & Biases for model performance metrics and risk evaluation
- Designed real-time anomaly detection systems for product authenticity verification, reducing fraud risks by 30%
- Collaborated with cross-functional teams to implement audit trails and risk mitigation strategies in ML pipelines

**Data Scientist**  
Kubota Tractor Corporation

Sep 2022 - Sep 2024  
*Remote*

- Developed machine learning models using Python and SQL for risk assessment and anomaly detection, reducing false positives by 30%
- Implemented automated statistical testing frameworks using AWS SageMaker for continuous model evaluation and optimization
- Built scalable data processing pipelines handling 5TB+ data using AWS services (EMR, Lambda, S3)
- Led cross-functional teams in implementing ML solutions, resulting in 15% improvement in operational efficiency

**Data Analyst Intern**  
Cognizant

Mar 2022 - Aug 2022  
*Hyderabad, India*

- Engineered ETL pipelines on AWS processing 5+ terabytes of data for risk analysis
- Developed analytical models using Python and R for pattern detection and anomaly identification

## SKILLS

<b>ML/AI</b>	PyTorch, TensorFlow, CLIP Models, Computer Vision, Neural Networks Statistical Modeling, LLMs, Deep Learning
<b>Infrastructure</b>	AWS SageMaker, EMR, Lambda, Bedrock, Multi-GPU Systems CUDA, Production ML Pipelines, Distributed Computing
<b>Data Science</b>	Python, SQL, PySpark, Statistical Analysis, A/B Testing Hypothesis Testing, Risk Modeling
<b>Tools</b>	Git, Docker, Weights & Bianas, Agile, CI/CD

## EDUCATION

## PROJECTS

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### Computer Vision Risk Assessment System

- Developed custom CLIP-based visual authentication system with distributed training pipeline handling 1M+ images daily
- Implemented comprehensive risk evaluation framework, achieving 97% accuracy in fraud detection using statistical analysis

### Generative AI Audit Platform

- Built end-to-end audit system using AWS Bedrock and custom LLMs for automated risk assessment
- Engineered scalable processing pipeline handling 100K+ documents with statistical analysis frameworks

### ML-Powered Pattern Detection

- Created real-time anomaly detection system using AWS SageMaker and statistical modeling
- Integrated automated monitoring and alert systems achieving 99.9% accuracy in risk identification