



Oscar Yates

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SUMMARY

Innovative AI engineer with over 9 years of experience in applied machine learning, specializing in developing and deploying multimodal perception systems. Proven ability enhances model performance and reliability in real-world applications while optimizing for safety and efficiency. Expertise lies in optimizing AI models for edge devices and cloud infrastructure, complemented by a strong background in computer vision and real-time data processing. Passionate about mentoring junior engineers, fostering teamwork, and driving technological advancements in safety-critical applications. Eager to contribute skills and make meaningful improvements.

EXPERIENCE

Senior AI Engineer March 2018 - Present
Visionary Tech Solutions Dallas, TX

Lead efforts in developing and deploying advanced AI models for real-time video analysis and safety applications, ensuring model performance in critical environments.

- Develop production-grade multimodal models focused on visual and video perception.
- Collaborate with cross-functional teams to improve model reliability and performance.
- Optimize machine learning pipelines targeted at edge devices for efficient deployment.
- Monitored ongoing performance and made iterative enhancements based on real-world feedback.

Mid-Level Machine Learning Engineer January 2015 - February 2018
Innovative Systems Inc. Austin, TX

Conducted development and monitoring of machine learning models for image recognition, emphasizing practical applicability within various constraints.

- Created and fine-tuned machine learning models for accurate assessment in real-world scenarios.
- Worked alongside teams to evaluate model performance against standard industry benchmarks.
- Facilitated successful model deployments despite resource limitations in clients' environment.
- Supported ongoing evaluation processes to maintain high accuracy and reduce discrepancies.

Junior Data Scientist June 2013 - December 2014
Tech Forward Group San Francisco, CA

Assisted with data processing pipelines for machine learning tasks, gaining foundational insights into the deployment phase of AI initiatives.

- Contributed to data pipeline designs, helping streamline the transition to machine learning applications.
- Worked with senior colleagues to analyze diverse datasets, significantly enhancing outcomes.
- Participated in initial prototype development, laying groundwork for subsequent projects.
- Accumulated experience in real-world deployments, reinforcing theoretical knowledge with practical application.

LEADERSHIP & AWARDS

- Recognized as Innovator of the Year by Visionary Tech Solutions for groundbreaking work on AI safety systems.
- Led team awarded Best Technical Achievement during company-wide tech fair for an AI deployment project.

EDUCATION

Master's Degree in Computer Science 2013
University of Illinois GPA: 3.9 Champaign, IL

Coursework: Data Structures, Machine Learning, AI Algorithms, Project Management

CERTIFICATIONS

- Certified TensorFlow Developer 2020
- AWS Certified Machine Learning – Specialty 2021

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Java
- **ML Frameworks:** TensorFlow, PyTorch, Scikit-learn
- **Deployment Tools:** Docker, Kubernetes, AWS
- **Database Technologies:** PostgreSQL, MongoDB, MySQL
- **Monitoring Platforms:** Prometheus, Grafana, ELK Stack
- **Testing Frameworks:** JUnit, pytest, Robot Framework
- **Visualization Tools:** Matplotlib, Seaborn, Tableau
- **Cloud Services:** AWS, GCP, Microsoft Azure
- **Version Control:** Git, SVN, Mercurial
- **Collaboration Tools:** Slack, Jira, Trello

SKILLS

- Machine Learning
- Model Optimization
- Edge Computing
- Production Deployment
- Python
- Data Analysis
- Model Evaluation
- Dataset Management
- PyTorch
- Real-time Processing
- Safety Applications
- Performance Tuning
- Computer Vision
- Cloud Deployment
- Deep Learning
- Technical Leadership

PROFESSIONAL AFFILIATIONS

- Member of the IEEE Robotics and Automation Society, collaborating on innovative projects.
- Active participant in the AI & ML Developers Network, contributing thought leadership and expertise.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST