

Callie Roberts

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SUMMARY

Results-driven AI/ML Engineering Director with over 10 years of experience delivering innovative machine learning solutions. Skilled in leading cross-functional teams and driving operational performance in high-reliability environments. Proven track record in developing AI/ML systems from inception to production, ensuring reliability and cost efficiency. A focus on enhancing process improvements led to developing robust MLOps capabilities, expediting model deployment and monitoring processes effectively, while engaging closely with stakeholders for optimal business alignment. Thrives in dynamic settings that demand strategic oversight and practical execution.

EXPERIENCE

Director of AI & ML Engineering

January 2020 - Present

Data Innovations Group

Colorado Springs, CO

In this role, spearheaded the development of cutting-edge machine learning systems that significantly improved operational efficiency. Collaborated strategically with product and engineering teams to align AI solutions precisely with overarching business goals. Implemented advanced MLOps capabilities to enhance particular aspects of model deployment and real-time monitoring.

- Managed end-to-end delivery of complex AI systems while ensuring optimal performance.
- Led technical execution focused on reliability, retraining efforts, and cost control across workflows.
- Empowered teams through mentoring, facilitating a culture of innovation and continuous improvement.
- Fostered collaborative engagement with stakeholders to ensure AI initiatives aligned with broader objectives.

Senior Machine Learning Engineer

June 2016 - December 2019

FutureTech Analytics

Boulder, CO

Led teams in designing and implementing advanced machine learning models that amplified predictive accuracy significantly. Oversaw team dynamics to deliver scalable AI solutions effectively within production environments. Conducted thorough performance monitoring and retraining of deployed models to maximize their effectiveness.

- Designed sophisticated ML models resulting in marked improvements in outcome reliability.
- Guided the engineering team in delivering solutions on time while meeting project requirements.
- Facilitated knowledge sharing sessions to enhance team understanding of emerging technologies.
- Engaged stakeholders to refine ongoing projects based on feedback and analytics.

Machine Learning Engineer

March 2014 - May 2016

AI Solutions Corp

Fort Collins, CO

Played a crucial role in developing and deploying machine learning algorithms tailored for diverse business applications. Collaborated closely with data scientists and analysts to fine-tune AI models based on comprehensive performance metrics. Offered consistent guidance to junior members on best practices in machine learning.

- Developed algorithms that enhanced decision-making across multiple applications.
- Conducted analysis and optimization of existing models to drive efficiency.
- Actively participated in project reviews, contributing technical insights and recommendations.
- Utilized data insights to shape strategic direction towards organizational goals.

LEADERSHIP & AWARDS

- Recipient of the Outstanding Woman in Technology Award (2025).
- Excellence in Leadership Award at Data Innovations Group (2021).

EDUCATION

Master's Degree in Computer Science

2013

University of Colorado Boulder GPA: 3.8

Boulder, CO

Coursework: Data Mining, Machine Learning, Algorithms, Software Development

CERTIFICATIONS

- Certified Machine Learning Specialist 📅 2021
- AWS Certified Solutions Architect 📅 2022

TECHNICAL SKILLS

- **Machine Learning Algorithms:** K-means, Regression, Neural Networks 1/2

- **Programming Languages:** Python, R, Java
- **Data Visualization Tools:** Tableau, Matplotlib, Seaborn
- **Cloud Computing Platforms:** AWS, Google Cloud, Azure
- **DevOps Tools:** Docker, Jenkins, Kubernetes
- **Version Control Systems:** Git, SVN
- **CI/CD Processes:** Jenkins, Travis CI
- **Database Technologies:** SQL, NoSQL, PostgreSQL
- **Statistical Analysis Tools:** SAS, SPSS, Excel
- **Data Processing Frameworks:** Apache Spark, Hadoop

SKILLS

- Machine Learning
- AI System Development
- MLOps
- Cross-Functional Leadership
- Data Analysis
- Python
- TensorFlow
- PyTorch
- Collaborative Skills
- Innovation Strategies
- Performance Monitoring
- Advanced Statistics
- Agile Methodologies
- Cloud Services
- Predictive Modeling
- Software Development

PROFESSIONAL AFFILIATIONS

- Member of the IEEE Computational Intelligence Society.
- Active participant in AI-focused community outreach programs.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST