

Experience AI Engineer

PROFESSIONAL SUMMARY

Experienced AWS AI/ML Engineer with over **12+ years** of industry experience, including specializing in AI/ML solutions, MLOps, and cloud-based deployments. Proficient in designing, implementing, and optimizing AWS AI/ML services, with a strong focus on CI/CD pipelines, containerization, and Linux systems. Demonstrated expertise in deploying scalable machine learning models and leading cross-functional teams to deliver impactful solutions. Committed to operational excellence, security, and cost optimization in cloud environments.

KEY SKILLS

- **AWS Cloud & AI/ML Services:** Amazon SageMaker, Recognition, Comprehend, AWS Cloud Containerization, ECS, EKS
- **Machine Learning & Deep Learning:** Supervised & Unsupervised Learning, NLP, Computer Vision, Time Series Analysis, Model Deployment
- **CI/CD & MLOps:** Kubernetes, Docker, Jenkins, MLflow, Kubeflow, Continuous Integration & Continuous Deployment
- **Programming Languages:** Python, R
- **Big Data Frameworks:** Apache Spark, Hadoop, Kafka
- **Containerization & Orchestration:** Docker, Kubernetes, OpenShift
- **Networking & Security:** AWS Security Services, Network Architecture, IAM, VPC
- **Database Management:** PostgreSQL, Redshift, MongoDB
- **Enterprise AI/ML Services:** Amazon Bedrock, Amazon Titan, IBM WatsonX.ai, Azure OpenAI

PROFESSIONAL EXPERIENCE

Lead Generative AI / ML Engineer | Remote *March 2022 – Present*

- Lead the design and implementation of AI/ML models using AWS services, enhancing business operations in finance, healthcare, and retail sectors.
- Architect and deploy containerized applications using AWS Cloud Containerization services (ECS, EKS) and Docker, resulting in a 20% improvement in deployment efficiency.
- Develop CI/CD pipelines for automated deployment and scaling, reducing time-to-market for machine learning solutions by 30%.
- Standardize solutions based on the AWS Well-Architected Framework, achieving a 15% reduction in operational costs while enhancing security and performance.
- Collaborate with cross-functional teams to deliver robust AI/ML solutions, contributing to a 25% increase in project success rates.
- Implement model interpretability and explainability techniques, ensuring transparency and compliance with ethical guidelines.
- Optimize Linux systems for AWS environments, ensuring high performance, security, and system stability.

Senior Data Scientist *April 2020 – March 2022*

- Designed and deployed predictive models using advanced machine learning methodologies, leading to a 30% improvement in predictive accuracy for various business use cases.
- Managed and optimized large-scale data processing pipelines with Apache Spark and DataBricks, enhancing data analytics capabilities by 40%.

- Developed and maintained automated anomaly detection systems, achieving a 95% accuracy rate in identifying potential issues.
- Led the integration of third-party data sources into existing analytics platforms, improving the quality and scope of data-driven insights.
- Conducted ad-hoc analyses and presented findings to stakeholders, directly influencing strategic business decisions.
- Collaborated with engineering teams to enhance data collection and processing protocols, resulting in a 20% increase in data reliability.

Lead Data Scientist *April 2019 – February 2020*

- Spearheaded the development of statistical models tailored for data analysis in the finance, healthcare, and retail sectors, improving operational efficiency by 25%.
- Architected and implemented data-driven solutions, reducing project development time by 15% and increasing product efficiency by 20%.
- Conducted comprehensive data processing, cleansing, and validation procedures to ensure data integrity, crucial for compliance in regulated industries.
- Mentored junior data scientists, enhancing team capabilities and contributing to a 30% improvement in project delivery timelines.

Data Scientist *January 2018 – March 2019*

- Enhanced machine learning models through advanced techniques such as feature engineering, transfer learning, and model optimization, leading to a 20% increase in model accuracy.
- Developed and validated deep learning models for image classification, significantly improving the accuracy and reliability of automated systems.
- Collaborated with business teams to gather requirements and align machine learning solutions with organizational objectives, resulting in a 15% increase in project deliverables.

TECHNICAL EXPERTISE

- **Programming:** Python, R
- **Databases:** PostgreSQL, Redshift, MongoDB
- **MLOps & CI/CD:** Docker, Kubernetes, Jenkins, MLflow, Kubeflow
- **Big Data:** Apache Spark, Hadoop, Kafka
- **Machine Learning Frameworks:** TensorFlow, PyTorch, scikit-learn, Keras
- **Natural Language Processing:** BERT, GPT, NLTK, SpaCy
- **Cloud Technologies:** AWS (SageMaker, ECS, EKS, S3, RDS), GCP, Azure
- **Enterprise LLMs Services:** Amazon Bedrock, Amazon Titan, Azure OpenAI

CERTIFICATIONS & ACHIEVEMENTS

- **AWS Certified Solutions Architect**
- **Certified Machine Learning Specialist**
- **Technical Book Reviewer:** Manning, Packt, Apress
- **GitHub Achievements:** 25k+ stars, 7k+ followers
- **Research Publications:** 20+ papers in IEEE, Springer
- **Speaker Engagements:** AWS Community Day, Google Developer Groups