**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