Job Title: Machine Learning Engineer

Company: Rayzrsole

Location: Kolkata, West Bengal

About Rayzrsole:

Rayzrsole is a rapidly growing tech innovator at the forefront of AI-powered analytics, personalized e-commerce experiences and intelligent software solutions. We are passionate about leveraging advanced technologies to solve complex problems and create impactful solutions for our users. Our culture fosters innovation, collaboration, and continuous learning, providing an environment where bright minds can thrive and make a real difference.

The Opportunity:

Rayzrsole is seeking a talented and driven Machine Learning Engineer to join our dynamic and expanding AI team. In this role, you will be instrumental in designing, developing, deploying, and maintaining machine learning models that power our core products and services. You will work on challenging, real-world problems, from ideation to production, contributing directly to the success and evolution of our intelligent systems. If you're passionate about building scalable, robust, and impactful AI solutions, we encourage you to apply!

What You'll Do:

- **Model Development:** Design, develop, train, evaluate, and fine-tune machine learning models (e.g., deep learning, classical ML, reinforcement learning) to solve specific business problems and improve product features.
- **Data Pipelining:** Collaborate with data engineers to build and optimize robust data pipelines for model training, inference, and monitoring.
- **Deployment & MLOps:** Implement and maintain MLOps practices, including model versioning, continuous integration/continuous deployment (CI/CD) for ML models, monitoring, and alerting in production environments.
- **Research & Innovation:** Stay abreast of the latest advancements in machine learning research and apply relevant techniques to enhance existing models or develop new capabilities.
- **Performance Optimization:** Optimize models for performance, scalability, and efficiency in production, considering factors like latency, throughput, and resource utilization.
- **Collaboration:** Work closely with cross-functional teams, including product managers, data scientists, software engineers, and researchers, to define requirements, integrate ML solutions, and deliver high-quality products.
- **Experimentation:** Design and execute A/B tests and other experiments to evaluate model performance and impact in real-world scenarios.
- **Documentation:** Create clear and comprehensive documentation for models, pipelines, and MLOps processes.
- **Troubleshooting:** Identify and resolve issues related to model performance, data quality, and deployment.
- **Mentorship (Senior Levels):** Potentially mentor junior engineers and contribute to the growth of the team.

What You'll Bring:

- **Education:** Bachelor's or Master's degree in Computer Science, Machine Learning, Artificial Intelligence, Statistics, Applied Mathematics, or a related quantitative field. (Ph.D. is a plus).
- **Experience:**
- **Junior ML Engineer:** 1-3 years of professional experience in machine learning engineering or a related role.
- **Mid-Level ML Engineer:** 3-6 years of professional experience in machine learning engineering with a proven track record of deploying models to production.
- **Senior ML Engineer:** 6+ years of professional experience in machine learning engineering, including leading projects, mentoring, and designing complex ML systems.
- **Technical Skills:**
- **Programming:** Strong proficiency in Python (PyTorch, TensorFlow, scikit-learn, pandas, numpy). Experience with other languages like Java, Scala, or Go is a plus.
- **Machine Learning Fundamentals:** Deep understanding of machine learning algorithms, statistical modeling, and data structures.
- **Deep Learning:** Hands-on experience with deep learning frameworks (PyTorch or TensorFlow) and architectures (CNNs, RNNs, Transformers, etc.).
- **MLOps:** Practical experience with MLOps tools and practices (e.g., MLflow, Kubeflow, Sagemaker, Azure ML, GCP AI Platform, DVC, Weights & Biases).
- **Cloud Platforms:** Experience with at least one major cloud platform (AWS, Azure, GCP) for building and deploying ML solutions.
- **Containerization:** Familiarity with Docker and Kubernetes for model deployment and orchestration.
- **Databases:** Experience with SQL and NoSQL databases.
- **Version Control:** Proficient with Git and collaborative development workflows.
- **Big Data Technologies (Plus):** Experience with Apache Spark, Hadoop, Flink, or similar big data processing frameworks.
- **Problem-Solving:** Excellent analytical and problem-solving skills with the ability to translate business requirements into technical solutions.
- **Communication:** Strong[1] written and verbal communication skills, with the ability to explain complex technical concepts to non-technical stakeholders.
- **Collaboration:** Ability to work effectively in[2] a fast-paced, collaborative team environment.
- **Initiative:** Proactive and self-motivated with a strong desire to learn and grow.

Bonus Points If You Have:

- Experience with real-time ML systems and low-latency inference.
- Contributions to open-source ML projects or research papers.
- Experience with A/B testing frameworks and experimental design.
- Familiarity with ethical AI principles and responsible ML development.
- Domain-specific experience relevant to Rayzrsole's industry (e.g., NLP, Computer Vision, Recommender Systems, Time Series Analysis).

Why Join Rayzrsole?

- **Impactful Work:** Be part of a team that's building cutting-edge AI solutions directly impacting our products and users.
- **Growth Opportunities:** Work on diverse and challenging projects that will accelerate your learning and career development.
- **Innovative Environment:** Contribute to a culture that values curiosity, experimentation, and pushing the boundaries of what's possible.
- **Collaborative Culture:** Work alongside passionate and brilliant minds in a supportive and inclusive environment.
- **Competitive Compensation:** Attractive salary package, stock options (for eligible roles), and comprehensive benefits.

Rayzrsole is an Equal Opportunity Employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.