Job Description

We are seeking skilled and motivated Data Science Interns to join our dynamic team, focusing on time series data analysis and the development of AI/ML models.

Responsibilities:

- **Time Series Data Analysis:** Collect, clean, and preprocess time series data from various sources; Conduct exploratory data analysis to identify patterns, trends, and anomalies in time series datasets; Develop and implement data quality checks to ensure accuracy and reliability of time series data.
- **Feature Engineering:** Work closely with domain experts to identify relevant features for time series modeling; Engineer features that capture important temporal dynamics and trends in the data.
- **Models:** Design, develop, and implement machine learning models for time series forecasting, anomaly detection, and trend analysis; Utilize advanced algorithms and techniques to optimize model performance; Collaborate with cross-functional teams to integrate models into existing systems and processes.
- **Model Evaluation and Validation:** Establish robust evaluation metrics for assessing the performance of time series models; Conduct thorough model validation, ensuring generalization and reliability; Implement model monitoring strategies to detect performance degradation over time.
- **AI/ML Integration:** Integrate developed models into production systems, ensuring seamless deployment; Collaborate with software engineers to implement APIs and other interfaces for model integration; Monitor and maintain the performance of deployed models, making improvements as needed.
- **Documentation and Reporting:** Document the entire data science pipeline, from data collection to model deployment; Prepare clear and concise reports on model performance, insights gained, and recommendations for stakeholders.
- **Collaboration:** Collaborate with cross-functional teams, including data engineers, software developers, and domain experts; Participate in regular meetings to discuss project progress, challenges, and opportunities.

Qualifications:
- Bachelor's in Data Science, Computer Science, Statistics, or a related field. Advanced Degree preferred.
- Proven experience working with time series data and developing predictive models.
- Strong programming skills in languages such as Python, SAS and/or R.
- Proficient in using machine learning libraries (e.g., TensorFlow, PyTorch, scikit-learn) and time series analysis tools.
- Experience with AI/ML model deployment and integration into production systems.
- Excellent communication skills, with the ability to convey complex technical concepts to non-technical stakeholders.
- Strong problem-solving skills and attention to detail.
- Familiarity with cloud platforms and big data technologies is a plus.