



Salient Predictions – Machine Learning Engineer

Salient Predictions

In a changing climate, Salient Predictions allows businesses to make informed decisions about the weeks, months, and seasons ahead. Salient's platform provides the world's most accurate seasonal and sub-seasonal weather forecasts (from 3 weeks up to 9 months out) for agriculture, energy, insurance, finance, retail, and beyond. As the global climate continues to change in impactful ways, Salient's technology will become foundational to the way we understand and forecast seasonal weather patterns. Founded by top scientists from Woods Hole Oceanographic Institute and MIT, and backed by top tier investors including First Star Ventures, Salient Predictions is building the long-range weather forecasting company that will alter the industry for decades to come.

Machine Learning Engineer

The Machine Learning Engineer will implement cutting edge deep learning algorithms and architectures for Salient's long-range weather forecasting products. Machine learning has the potential to transform weather modeling, and this is an opportunity to get in on the ground floor of this exciting shift. The role will shape the key underlying technology of a cutting-edge weather platform, and involve hands on work with a unique and challenging dataset:

- Many columns (100,000+ potential climate system "features")
- Few rows (40 years of quality data)
- Chaotic system, outputs are probabilistic in nature
- Low signal to noise ratio
- Existing solutions are only 55-60% accurate – huge room for improvement

We're looking for someone who is excited by a challenging ML problem with big real-world applications. The ideal candidate would have experience in the following areas:

- Strong knowledge of deep learning architectures (Tensorflow, PyTorch)
- Experience with probabilistic time series prediction
- Familiarity with the scientific Python stack (xarray, pandas) and cloud computing systems (GCP)
- Domain-specific training in meteorology not needed, but must have enthusiasm to learn the challenges of this application

Commitment: Both full-time and consulting roles are a possibility.

Location: Ideally Boston, remote will be considered.

Compensation: competitive salary + equity package

If interested, please contact Sam Levang (slevang@salientpredictions.com)