Data Scientist

at Venture Global LNG

Arlington, VA

Venture Global LNG ("Venture Global") is a long-term, low-cost provider of American-produced liquefied natural gas. The company's Louisiana-based export projects service the global demand for North American natural gas and support the long-term development of clean and reliable North American energy supplies. Using reliable, proven technology in an innovative plant design configuration, Venture Global's modular, mid-scale plant design will replace traditional designs as it allows for the same efficiency and operational reliability at significantly lower capital cost.

The Data Scientist is responsible for designing, developing, maintaining, and deploying machine learning, simulation, and optimization models using Databricks and Spark (PySpark). Strong data engineering, communications, and self-management skills are a must.

This position is for experienced candidates only. That means the candidate will have to demonstrate real world experience (not academia) as well as the expertise gained from that experience.

The position reports to the Director of Business Intelligence and is structured within IT under the Vice President of Applications.

The position is located in Arlington, VA and requires working at the office five days a week.

Responsibilities

- Build end-to-end data science workflows, not just models, that provide quantifiable business value to stakeholders.
- Work the whole data science lifecycle: requirements, data generation, data transformation, model building, model testing, model serving.
- Provide software solutions that are automated and flexible to future business demands. Mercilessly fight technical debt and rework.
- Develop and leverage subject matter expertise in select portions of the business in order to better design and execute projects.

Qualifications

- Bachelor's degree in analytical field.
- 5 years experience data science work outside academia.
- 2 years experience in Spark (PySpark) OR experience in other Python data libraries plus some exceptional demonstration of data science ability. Writing SQL or Pandas code in Spark does not count.
- Excellent English.
- Excellent communication skills, with a history of being able to communicate in oral, written, and presentation form with senior stakeholders such as Directors, Vice Presidents, and the C-Suite.
- The ability to work in a completely self-directed manner. This includes the ability to learn complex software by one's self.
- The ability to organize complex work in a formal way so as to be able to keep track of multiple complex projects for multiple stakeholders.
- Broad understanding of how to write and deploy good code. This means being able to write code in functions, not just notebooks. Other topics are Git / version control, design of modular code to separate out constants and lookup tables, unit testing, and writing readable textbook-style code that all team members can understand.
- Thorough understanding of basic data engineering concepts such as relational and nonrelational data stores, distributed computation, batch and stream processing, tables, keys, SQL vs Spark, cardinality, transforms (groupby, agg, melt, pivot, window, join, union, merge, etc), partitions, caching, and so on.
- Thorough understanding of at least one Python visualization library such as matplotlib, seaborn, plotly, holoviz, altair, etc. Excellent understanding of both business-centric visualization and

scientific visualization, including how to best display quantitative information to nontechnical audiences. Ideally, a mature understanding of the aesthetics of visualization.
- Thorough understanding of applied data science in the form of machine learning. Knowledge of the statistical principles that underpin machine learning, the basic types of machine learning models, and the proper use of Python ML libraries such as scikit-learn and spark.ml / mllib.

Preferred Qualifications

- Knowledge of additional data science methodologies beyond vanilla machine learning: simulation methodologies such as system dynamics (SD), agent-based modeling (ABM), and discrete event simulation (DES); deep learning; the application of ML / DL to unstructured data such as text, audio, images, and video; and optimization.
- Demonstrated expertise in applying one or more data science methodologies in an advanced way to achieve business impact. Writing model.fit() and model.predict() is not a sufficient demonstration of data science talent.
- A sophisticated understanding of how to push past existing common practice in the application of data science as relevant to Venture Global LNG. The goal should be to radically, not incrementally, improve data science capabilities every year.

Venture Global LNG is an Equal Opportunity Employer. We do not discriminate on the basis of race, religion, color, sex, gender identity, sexual orientation, age, non-disqualifying physical or mental disability, national origin, veteran status, or any other basis covered by appropriate law.

#LI-Onsite

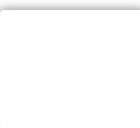# Apply for this Job
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Resume/CV * Attach, Dropbox, Google Drive, or enter manually
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Cover Letter Attach, Dropbox, Google Drive, or enter manually

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+ Add another education

Will you now or in the future require sponsorship to work in the United States? *

[-- ▾]

How did you find out about this job? *

Select one or more

Have you ever been convicted of a felony? *

[-- ▾]

Are you related to any person assigned to a Venture Global LNG construction project through a

major contractor or supplier to Venture Global LNG? *

[-- ▾]

LinkedIn Profile

Are you related to any employee of Venture Global LNG or its subsidiaries? *

[-- ▾]

Voluntary Self-Identification

For government reporting purposes, we ask candidates to respond to the below self-identification survey. Completion of the form is entirely voluntary. Whatever your decision, it will not be considered in the hiring process or thereafter. Any information that you do provide will be recorded and maintained in a confidential file.

As set forth in Venture Global LNG's Equal Employment Opportunity policy, we do not discriminate on the basis of any protected group status under any applicable law.

Gender   Please select ▾

Are you Hispanic/Latino? Please select ⌄

If you believe you belong to any of the categories of protected veterans listed below, please indicate by making the appropriate selection. As a government contractor subject to the Vietnam Era Veterans Readjustment Assistance Act (VEVRAA), we request this information in order to measure the effectiveness of the outreach and positive recruitment efforts we undertake pursuant to VEVRAA. Classification of protected categories is as follows:

A "disabled veteran" is one of the following: a veteran of the U.S. military, ground, naval or air service who is entitled to compensation (or who but for the receipt of military retired pay would be entitled to compensation) under laws administered by the Secretary of Veterans Affairs; or a person who was discharged or released from active duty because of a service-connected disability.

A "recently separated veteran" means any veteran during the three-year period beginning on the date of such veteran's discharge or release from active duty in the U.S. military, ground, naval, or air service.

An "active duty wartime or campaign badge veteran" means a veteran who served on active duty in the U.S. military, ground, naval or air service during a war, or in a campaign or expedition for which a campaign badge has been authorized under the laws administered by the Department of Defense.

An "Armed forces service medal veteran" means a veteran who, while serving on active duty in the U.S. military, ground, naval or air service, participated in a United States military operation for which an Armed Forces service medal was awarded pursuant to Executive Order 12985.

Veteran Status

Please select ⌄

Voluntary Self-Identification of Disability

Form CC-305   OMB Control Number 1250-0005
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Why are you being asked to complete this form?

We are a federal contractor or subcontractor. The law requires us to provide equal employment opportunity to qualified people with disabilities. We have a goal of having at least 7% of our workers as people with disabilities. The law says we must measure our progress towards this goal. To do this, we must ask applicants and employees if they have a disability or have ever had one. People can become disabled, so we need to ask this question at least every five years.

Completing this form is voluntary, and we hope that you will choose to do so. Your answer is confidential. No one who makes hiring decisions will see it. Your decision to complete the form and your answer will not harm you in any way. If you want to learn more about the law or this form, visit the U.S. Department of Labor's Office of Federal Contract Compliance Programs (OFCCP) website at www.dol.gov/ofccp.

How do you know if you have a disability?

A disability is a condition that substantially limits one or more of your "major life activities." If you have or have ever had such a condition, you are a person with a disability. **Disabilities include, but are not limited to:**

- Alcohol or other substance use disorder (not currently using drugs illegally)
- Autoimmune disorder, for example, lupus, fibromyalgia, rheumatoid arthritis, HIV/AIDS
- Blind or low vision
- Cancer (past or present)

- Cardiovascular or heart disease
- Celiac disease
- Cerebral palsy
- Deaf or serious difficulty hearing
- Diabetes
- Disfigurement, for example, disfigurement caused by burns, wounds, accidents, or congenital disorders
- Epilepsy or other seizure disorder
- Gastrointestinal disorders, for example, Crohn's Disease, irritable bowel syndrome
- Intellectual or developmental disability
- Mental health conditions, for example, depression, bipolar disorder, anxiety disorder, schizophrenia, PTSD
- Missing limbs or partially missing limbs
- Mobility impairment, benefiting from the use of a wheelchair, scooter, walker, leg brace(s) and/or other supports
- Nervous system condition, for example, migraine headaches, Parkinson's disease, multiple sclerosis (MS)
- Neurodivergence, for example, attention-deficit/hyperactivity disorder (ADHD), autism spectrum disorder, dyslexia, dyspraxia, other learning disabilities
- Partial or complete paralysis (any cause)
- Pulmonary or respiratory conditions, for example, tuberculosis, asthma, emphysema
- Short stature (dwarfism)
- Traumatic brain injury

Disability Status

Please select ⌄

PUBLIC BURDEN STATEMENT: According to the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. This survey should take about 5 minutes to complete.

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