

# Data Scientist, Algorithms - Core DS

United States

Role overview

Application

*Airbnb was born in 2007 when two Hosts welcomed three guests to their San Francisco home, and has since grown to over 4 million Hosts who have welcomed more than 1 billion guest arrivals in almost every country across the globe. Every day, Hosts offer unique stays and experiences that make it possible for guests to connect with communities in a more authentic way.*

## The Community You Will Join:

The mission of the Core Data Science team is to ensure that we are leveraging state of the art science at Airbnb for the highest possible impact on the business and the community. We do that by building reusable models and features that empower every DS team in the company; and by tackling the most

technically challenging, high impact data science problems the company faces.

## **The Difference You Will Make:**

As a Data Scientist for the team's machine learning work, you will work closely with the tech lead for this area on significant components of larger projects. The keys to success in this role are effective execution on high-impact applications and successful application of new technologies and innovations to Airbnb problems.

The role requires partnering with engineers, product managers, and other data scientists across the organization. A successful candidate will be able to collaborate with these technical and non-technical partners to achieve the best outcome for Airbnb and its customers.

## **A Typical Day:**

- Developing signals (e.g. embeddings, clustering) from LLMS and other sources that be be leveraged across multiple defenses
- Effectively leveraging LLM technology to solve Airbnb business problems
- Utilizing Deep Learning techniques for advanced feature engineering and model building, e.g., how to model for user behavior sequences,

- Devising optimization models to make optimal business decisions while minimizing risk
- Integrating causal modeling with ML models in order to improve performance of model-derived interventions.

### **Your Expertise:**

- PhD degree in a quantitative field, e.g. Computer Science, Operations Research, Mathematics, Physics
- Proven ability to design analytical solutions to complex problems with real world applications
- 2+ years of experience of working or doing research in one or more ML / AI domains, e.g. LLMs, computer visions, recommendation systems etc. Open to recent PHD grad.
- Strong programming (Python / Scala / Java / C++ or equivalent) skills
- Experience with OSS ML technologies such as PyTorch, TensorFlow, Spark, Airflow
- Versatility to communicate clearly with both technical and non-technical audiences.
- Publications or presentations in recognized Machine Learning and Data Mining journals/conferences is a plus.

### **Your Location:**

This position is US - Remote Eligible. The role may include occasional work at an Airbnb office or attendance at offsites, as agreed to with your manager. While the position is Remote Eligible, you must live in a state where Airbnb, Inc. has a registered entity. Click [here](#) for the up-to-date list of excluded states. This list is continuously evolving, so please check back with us if the state you live in is on the exclusion list. If your position is employed by another Airbnb entity, your recruiter will inform you what states you are eligible to work from.

## **Our Commitment To Inclusion & Belonging:**

Airbnb is committed to working with the broadest talent pool possible. We believe diverse ideas foster innovation and engagement, and allow us to attract creatively-led people, and to develop the best products, services and solutions. All qualified individuals are encouraged to apply.

We strive to also provide a disability inclusive application and interview process. If you are a candidate with a disability and require reasonable accommodation in order to submit an application, please contact us at: [reasonableaccommodations@airbnb.com](mailto:reasonableaccommodations@airbnb.com). Please include your full name, the role you're applying for and the accommodation necessary to assist you with the recruiting process.

We ask that you only reach out to us if you are a candidate whose disability prevents you from being able to complete our online application.

How We'll Take Care of You:

Our job titles may span more than one career level. The actual base pay is dependent upon many factors, such as: training, transferable skills, work experience, business needs and market demands. The base pay range is subject to change and may be modified in the future. This role may also be eligible for bonus, equity, benefits, and Employee Travel Credits.

Pay Range  
\$145,000—\$170,000 USD

Apply Now

Reasonable Accommodation — Airbnb values diversity & belonging and is proud to be an Equal Employment Opportunity employer. All individuals seeking employment at Airbnb are considered without regard to race, color, religion, national origin, age, sex, marital status, ancestry, physical or mental disability, veteran status, gender identity, sexual orientation, or any other legally protected characteristic. We are committed to providing reasonable accommodations throughout the recruitment process for applicants with disabilities. If you need assistance, or an accommodation, please let your recruiter know once you are contacted about a role

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