DEEP ROOT | AUDIENCE-POWERED ANALYTICS

DATA ENGINEER
DEEP ROOT ANALYTICS
ARLINGTON, VA

Company Overview

Deep Root is an audience-powered analytics company that: identifies a client's ideal audiences, analyzes how the audiences consume media for optimal advertising, integrates the audiences into platforms for linear, addressable and digital ad delivery, and measures how the audiences are being impacted by paid and earned media.

Job Description

Deep Root Analytics is looking for a Data Engineer to work on our growing, dynamic Engineering team. We are seeking someone with a technical background who enjoys solving complex problems and has professional experience owning ETL processes. The Data Engineer will be primarily responsible for building out new pipeline components and maintaining existing ones for a complex technology stack that spans a variety of languages and frameworks.

The Engineering team is responsible for data health and quality in every step of the pipeline process, from initial ingestion to deployment and visualization. As a result, debugging can require a deep dive into several interfacing pieces of software, and on any given day a Data Engineer can expect to work on multiple components that perform very different functions. The ideal candidate must be adaptable and comfortable moving between systems. Additionally, they must be curious, hard-working, and independent, as we expect them to solve complex problems using their own experience and critical thinking skills.

Specifically, the Data Engineer will be tasked with the following:

- Manage, modify, and maintain our proprietary software responsible for data storage and transformation of data from a wide variety of sources and delivery methods
- Design and build new components that scale to efficiently ingest, normalize, and process data from a growing number different sources
- Run distributed computing jobs using Databricks/Spark to prepare and transform terabytes of time-series and event data for modeling
- Integrate external APIs into current products and utilize their data to streamline and add value to current offerings
- Assist Data Analysts on product buildout and ad hoc analysis requests from the Client Service and Revenue teams; ensuring they have access to the data they need

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Qualifications & Skills

- Bachelor's degree in Mathematics, Computer Science, or related field
- 2+ years of experience using Python 3 to leverage its strong data science libraries, including Scikit-Learn and Pandas
- Strong in at least one other language other than Python 3; experience shell scripting, especially Bash
- Proficient with different flavors of SQL, especially PostgreSQL, including understanding of under-the-hood concepts like indexing and analysis of query plans
- Experience extracting data from, and pushing data to, a variety of sources including relational and non-relational databases, RESTful APIs, flat files, FTP servers, and distributed file systems
- Experience with Agile / Scrum development methodologies
- Experience with "XaaS" cloud services — we are an AWS shop but will consider candidates with similar experience on other cloud platforms
- Excellent communication skills, both written and oral, especially when explaining difficult technical concepts to people in non-technical roles
- Strong analytical skills, especially when working with multiple large datasets

Preferred Qualifications

- Proficiency in JavaScript framework such as Angular, React or VueJS and Ruby on Rails
- Experience displaying data with Tableau, Power BI or other data visualization tools
- A basic understanding of the mathematics underlying models and transformations used commonly in data science today

Characteristics of a Successful Candidate

- We are looking for smart, driven, likable and curious people
- You need to be highly adaptable to a rapidly growing and changing business environment
- You are a quick learner and problem solver
- You keep on top of the latest developments in the field
- You have an ability and eagerness to constantly learn and teach others
- You are an exceptional problem-solver and have a self-starter attitude

Application:

- Please email a resume and three references to info@deeprootanalytics.com with the subject line: DATA ENGINEER.
- Applicants should also be prepared to answer detailed technical questions and be comfortable whiteboarding problems in a language of their choosing.

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