

## Fresher - Data Engineer

<https://busigence.zohorecruit.com/recruit/ViewJob.na?digest=pqUxfVA6uYE0gAANVel29JK8Ez7LnP.PWm3hAagjkOo-&embedsource=CareerSite>

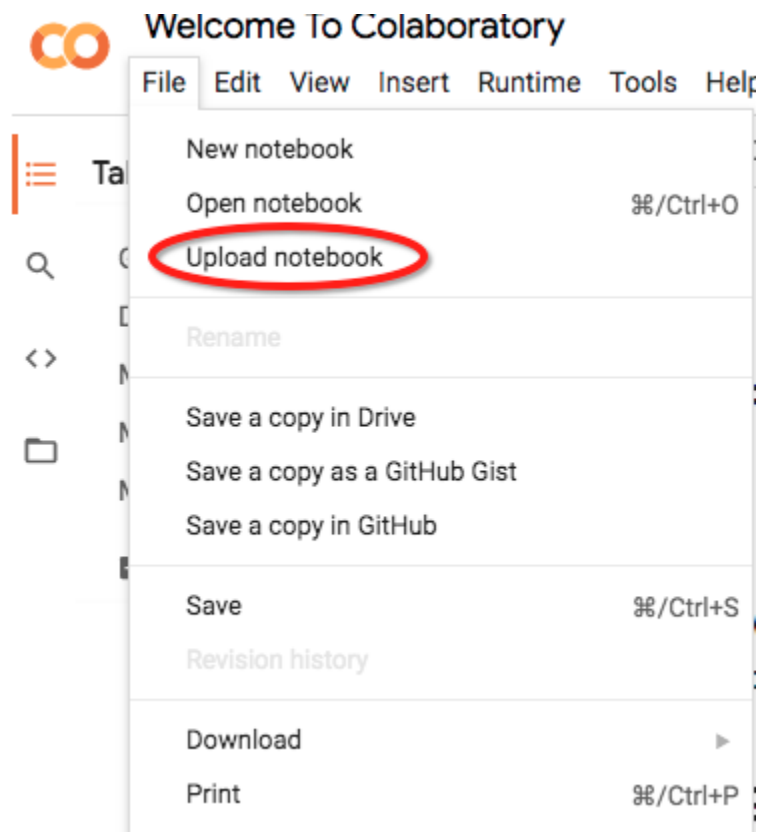
(The above link is for reference only. You had already applied and been shortlisted for Round 1)

### **ROUND 1**

**STEP 1:** Download datasets (sales folder - eight CSVs, one json, one xml, one txt)

**STEP 2:** Download jupyter notebook (fresher-data-engineer\_firstname-lastname.ipynb)

**STEP 3:** Rename the jupyter notebook with as fresher-data-engineer\_firstname-lastname.ipynb (eg. fresher-data-engineer\_sahil-gupta.ipynb) and upload on Google Collab (<https://colab.research.google.com>)



**STEP 4:** Follow instructions provided in the jupyter notebook and start solving fifteen problems

**STEP 5:** Once solved, download the attempted notebook and upload the same to Google Form ( <https://forms.gle/aDtESCad5VEFWWDt9> ) alongwith filling the form

## Recruitment Workflow

STAGE	COMPANY	CANDIDATE	STATUS
POST JOB	Job posted on site	NA	Completed
APPLICATION	NA	Fills application form	Completed
PRE-SCREENING	NA	Attempts pre-screening test	Completed
ACKNOWLEDGEMENT	Acknowledgement mail to candidate	NA	Completed
elimination1 (based on pre-screening cut-off score)			
SHORTLISTING1	Shortlisting mail to shortlisted candidate	NA	Completed
CONFIRMATION	NA	Confirms participation for Round1	Completed
elimination2 (based on non-confirmation)			
ROUND1	Send assignment to confirmed candidate	NA	Completed
ROUND1 SUBMISSION	NA	Attempts and upload submission to Google Form	In-Progress
ACKNOWLEDGEMENT	NA	NA	not needed
ROUND1 EVALUATION	Evaluate submission	NA	Yet to be done
SHORTLISTING2	Shortlisting mail to shortlisted2 candidate and invite for Round2	NA	Yet to be done
CONFIRMATION	NA	Confirms participation for Round2	Yet to be done
elimination3 (based on non-confirmation)			
ROUND2	Conduct video screen-share technical interview online	NA	Completed
ROUND2 EVALUATION	Evaluate technical interview performance	NA	Yet to be done
SHORTLISTING3	Shortlisting mail to shortlisted3 candidate and	NA	Yet to be done

	invite for Round3		
CONFIRMATION	NA	Confirms participation for Round3	Yet to be done
elimination4 (based on non-confirmation)			
ROUND3	Conduct video hr interview online	NA	Yet to be done
ROUND3 EVALUATION	Evaluate hr interview performance	NA	Yet to be done
SHORTLISTING3	Selection mail to shortlisted3 candidate and send offer	NA	Yet to be done
ACCEPTANCE	NA	Accepts the offer and provide tentative date of joining	Yet to be done
elimination5 (based on non-acceptance)			
JOB CONFIRMATION	Send confirmation mail alongwith mutually agreed date of joining	NA	Yet to be done

## **FAQs**

### **Q1. What is Busigence?**

**A1.** Busigence is a decision intelligence company. We build enterprise software on the backbone of Big Data, AI/ML and Automation. We are based out of Bengaluru India

### **Q2. Can we work-from-home i.e. remote position?**

**A2.** Yes, this is a remote position and you can work-from-home. Though, you must have required logistics in place, which includes continuous electricity (with inverter/generator, if required), high-speed internet (atleast 10 Mbps), working laptop/desktop and disturbance free working environment

### **Q3. What are responsibilities for a PySpark Developer at Busigence?**

**A3.** Please refer

<https://busigence.zohorecruit.com/recruit/ViewJob.na?digest=pqUxfVA6uYE0gAANVel29JK8Ez7LnP.PWm3hAagjkOo-&embedsource=CareerSite>

### **Q4. I haven't got an introductory call. I have been sent a Round1 assignment directly. Is this normal?**

**A4.** Yes. There is no need for a phone call when the same information can be communicated through an email. You can treat and consider this communication as official. We have reviewed

your profile and have shortlisted your profile for Round1. Also, your expectations are clear to us and we shall abide with them.

First-and-foremost is to clear Round1 and rest shall follow

**Q5. What is this assignment all about?**

**A5.** This is a problem solving assignment with 15 problems to be solved. You are required to write code in PySpark3 to get the required output, preferably in a functional programming paradigm. The code shall be written in a jupyter notebook provided. You should be able to open and work on a jupyter notebook. You can learn working on jupyter notebook from <https://www.codecademy.com/articles/install-python3>

You should install PySpark3 on your machine if you happen to code in PySpark3 in jupyter notebook. Better work on Google Colab notebook and install required libraries there

**Q6. What do you intend to evaluate in me through this assignment?**

**A6.** Through this assignment, we evaluate you predominantly on three qualities:

[1] Data/Domain understanding [2] Logic building [3] Coding

**Q7. What are your suggestions for me to excel in this assignment solving?**

**A7.** Sure. You must analyse and explore the datasets (eight CSVs, one JSON, one XML, one TXT) very well. You should try to understand patterns & behaviour in data. Secondly, you must understand problem statements (the fifteen problems) really well.

You should attempt this assignment by yourself without any external help. We shall discuss similar problems during technical interview

**Q8. Can you suggest tips to score high or atleast clear the cutoff?**

**A8.** Yes. Rather than attempting all problems incomplete or incorrect, you should try to solve 8-10 problems with absolute correct output. Though we encourage you to score full marks by attempting all problems correctly. Also, you should emphasise on understanding of data and problem statements

**Q9. Neither I am competent nor I am motivated to solve such problems. What should I do?**

**A9.** You should withdraw your application and don't submit the assignment with vague responses. This shall waste each other's time and shall not benefit anyone.

We are a performance oriented company and we hire extremely smart, hard-working and talented people. In a nutshell, you must have solid your hands and mastered PySpark really well.

**Q10. What are the next steps post submitting this assignment?**

**A10.** If cleared, you shall be invited for an online video screen-share call interview where we shall discuss this assignment, evaluate you deeper and finalise the offer, if selected.