

HARSH SAGAR  
[harsh.sagar2107@gmail.com](mailto:harsh.sagar2107@gmail.com)  
6352010302

13<sup>th</sup> February, 2024

Boston Consulting Group,  
India

Hello,

I am Harsh Sagar, 5<sup>th</sup> year Biological Sciences student at IIT Madras. I wish to apply for Junior Data Engineer position at Boston Consulting Group. I had worked on Detection of Milk Adulterant using ML Techniques project for Summer Research Internship, IIT Bhubaneswar. Analysed milk properties such as foamability, foam stability, foam height etc as the demand for Cappuccino foams has increased. Used Grid search cv for hyperparameter tuning on Random forest classifier, which increased test accuracy to 88.1% from 81.7% also increased roc auc score to 0.953771 from 0.946013. This work also got published as research paper in Springer publications.

Worked on the classification of the gene expression of endometrial biopsies as a data science intern at Supratech Lab, Gujarat. To select the genes involved in endometrial receptivity to be included in the ERA, the gene ontology terms with a P value less than .025 were considered significant. For the endometrial receptivity transcriptomic signature, two different comparisons were made, the first was the differential expression of R versus P and E and the second was that of P versus E in the ERA. These statistically significant genes were isolated during the Window of Implantation. Used Grid Search CV for hyper parameter tuning of XGBoost model for prediction.

Working on these internships I have developed extensive knowledge and expertise in the field and gained valuable experience in various aspects of research work. Moreover, my previous roles have helped me to develop and significantly improve my attention to detail and accuracy and gave me a chance to see and feel what it's like to be a part of a deadline-driven and fast-paced business environment. In addition to my experience, I can offer your firm excellent analytical skills and important multitasking and time management abilities. Not only they are necessary for the job but also serve as an evidence of a data-driven mindset which I believe I possess.

What excites me about the opportunity at BCG X is the chance to leverage my technical skills and domain knowledge to design, develop, and maintain data pipelines and solutions that empower clients to make informed business decisions. I am particularly drawn to the collaborative and client-focused environment at BCG X, where I believe I can continue to grow and contribute to impactful projects.

In addition to my technical skills, I bring strong communication skills, attention to detail, and a passion for continuous learning. I am eager to bring my unique perspective and problem-solving abilities to the BCG X team and contribute to creating innovative solutions for clients.

Over and above, I am a good team player also I have ability to compromise, listen to my teammates and always passionate to learn from my seniors. I'm reliable and willing to work above and beyond what is required to get going on any assignment with enthusiasm.