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Mackay Regional Council,
India

Hello,

I am Harsh Sagar, 5th year Biological Sciences student at IIT Madras. I wish to apply for Laboratory Technician position at Mackay Regional Council. 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.

As an aspiring professional with a strong educational background and relevant experience, I am excited about the opportunity to join Mackay Regional Council as a Laboratory Technician. This position perfectly aligns with my skills, qualifications, and career aspirations, and I am eager to contribute to the vital work of the Water Treatment team in ensuring the quality and safety of water and wastewater in the Mackay Region.

The chance to work in a state-of-the-art Water and Waste Scientific and Analytical Services laboratory is incredibly appealing to me. I am enthusiastic about utilizing my formal qualification in laboratory techniques, including my Certificate III in Laboratory Techniques, to conduct sampling, chemical, and microbiological testing of water and wastewater samples. The opportunity to apply my theoretical knowledge to real-world scenarios and make tangible contributions to the community excites me.

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.