



बिरला प्रौद्योगिकी संस्थान

BIRLA INSTITUTE OF TECHNOLOGY

(विद्या अनुमोदन अधिनियम १९५६ की धारा ३ के तहत मानित विश्वविद्यालय) || A Deemed to be University u/s 3 of UGC Act, 1956
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TO WHOM IT MAY CONCERN

I have known Mr. Sudeep Kansari since August 2022, when he joined the Department of Pharmaceutical Sciences & Technology at Birla Institute of Technology, Mesra, Ranchi, India, as a postgraduate student in the M.Pharm. program with a specialization in Pharmaceutical Chemistry. During his time in the department, I had several opportunities to interact with him and observe his academic and professional demeanour.

Sudeep consistently demonstrated a positive and earnest approach to his studies. He was courteous, methodical, and diligent in his work, and maintained a harmonious rapport with his peers. His commitment to learning and his disciplined nature made him a valued member of the academic community.

In the laboratory, Sudeep exhibited a strong grasp of sophisticated experimental techniques and analytical instrumentation. He gained practical experience with fluorimetry, flame emission spectroscopy (FES), UV-Visible spectroscopy, FT-IR, and HPLC, and showed a commendable ability to interpret IR and NMR spectra. His adeptness at setting up and executing various chemical reactions underscored his confidence and competence in hands-on experimental work.

On the computational front, Sudeep showcased notable expertise in computer-aided drug design and cheminformatics. He skillfully employed advanced software platforms such as AutoDock, GROMACS, and Schrödinger for molecular docking, virtual screening, and molecular dynamics simulations. His ability to integrate these computational tools into his research reflected both technical acumen and a collaborative mindset, often working closely with peers to deepen his understanding and refine his methodologies.

Moreover, Sudeep developed strong programming capabilities in Python, R, Bash, and Perl, which he effectively applied to his research projects. His enthusiasm for machine learning was evident through his active participation in workshops and his engagement with current literature. This dedication culminated in the successful incorporation of machine learning models into his M.Pharm. thesis.

I am confident that Sudeep will be a valuable addition to any institution or organization he chooses to join. His blend of technical proficiency, intellectual curiosity, and collaborative spirit makes him a strong candidate for the program he is applying to. I wholeheartedly endorse his application and wish him continued success in all his future endeavours.

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