



COMSATS University Islamabad

TO WHOM IT MAY CONCERN

Dear Admissions Committee,

Sept 29, 2025

I am writing to recommend Muhammad Ibrahim for admission to your graduate program. I have known Ibrahim as his instructor in the Design and Analysis of Algorithms course, where he consistently demonstrated good analytical and problem-solving skills, earning an overall GPA of 4.0/4.0. I am also supervising his final year project, which applies blockchain and machine learning to tackle a complex real-world problem, where he has shown remarkable initiative, creativity, and research potential.

Ibrahim's final year project, Rent Mates, addresses critical challenges faced by international students in securing rental accommodations abroad. Many students must pay security deposits before applying for visas, which can be withheld by landlords if visas are rejected, and they often cannot access rental loans due to lack of permanent status in the host country. To solve these problems, Ibrahim is developing Rent Mates, a system that secures rental deposits via blockchain-based escrow smart contracts, enables decentralized rental lending, and maintains immutable rental records. The project also integrates AI-based techniques, including NLP for detecting rental scams and dynamic rent pricing models, demonstrating his ability to combine advanced technologies into a practical, cohesive solution.

Ibrahim has successfully completed project scoping and requirement gathering, and initial implementation has started. Beyond technical skills, he exhibits a strong capacity for independent research, systematic experimentation and innovation, qualities that will enable him to excel in a rigorous graduate program. His insight, careful planning, and commitment to developing impactful solutions make him an outstanding candidate for advanced study and research. I recommend him without reservation.

Sincerely,

Assistant Prof. Tanveer Ahmed

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