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Hiring Manager
Microsoft

Dear Hiring Manager,

I am writing to express my interest in the Internship at Microsoft. With a strong academic background in Computer Science and Engineering from the Indian Institute of Technology, Jodhpur, and hands-on experience in developing and deploying machine learning models, I am eager to contribute to Microsoft's innovative projects.

During my academic journey, I have developed a solid foundation in various aspects of machine learning and artificial intelligence. My coursework has covered essential topics such as Data Structures and Algorithms, Pattern Recognition and Machine Learning, Software Engineering, Linear Algebra, and Probability Statistics. These courses have equipped me with the theoretical knowledge and practical skills necessary for a successful career in Software Development and AI.

My practical experience includes working as an Undergraduate Researcher at IIT Jodhpur, where I developed a neural network model to predict difference current in photo diodes under the supervision of Prof. V. Narayanan. Currently, I am researching the real-time representation of surfaces using signed distance fields (SDF). This project has deepened my understanding of advanced machine learning techniques and their applications in computer graphics and real-time systems.

I have successfully completed several projects that demonstrate my ability to apply machine learning techniques to solve complex problems. For instance, I developed a Movie Recommendation System using algorithms like ANN, Single Value Decomposition, and Random Forest Regressor, which I deployed on Streamlit. Another notable project is the Colour-Blind Assistance System, where I created a Flutter application that aids people affected by color blindness through image classification and color detection. This project involved using TensorFlow Lite and Google ML Kit, and implementing the backend in Firebase.

Beyond my technical skills, I have actively participated in extracurricular activities, including serving as a Marketing, Event Management, and PR Volunteer for IGMUN-Ignus at IIT Jodhpur. These experiences have honed my communication and teamwork skills, which I believe are crucial for collaborating effectively in a professional environment.

I am particularly excited about the opportunity at Microsoft because of the company's commitment to innovation and excellence in technology. I am confident that my skills , along with my passion fo make me a strong fit for this internship. I am eager to learn from and contribute to Microsoft's talented team, and I am enthusiastic about the potential to work on cutting-edge projects.

Thank you for considering my application. I look forward to the opportunity to discuss how my background, skills, and enthusiasms align with the goals of Microsoft.

Sincerely,
Tejas Gupta