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AIG Hospitals

RE: Application for Summer Research Fellowship – ML for Healthcare at AIG Hospitals

Sir,

I am pleased to submit my application for the Summer ML Internship at AIG Hospitals, part of the ML for Healthcare Fellowship program. As a student currently pursuing a bachelor's degree in Electronics and Communications Engineering, I am keen to apply my skills in critical thinking, problem-solving, and attention to detail to support your innovative projects and continue growing in the field of machine learning for healthcare.The opportunity to work on NLP and computer vision projects within a healthcare environment particularly excites me. I am passionate about machine learning algorithms and applying them to real-world challenges.

Through my coursework, I have developed a strong foundation in algorithm development and artificial intelligence applications. I have also pursued projects that reflect my passion for creating machine learning solutions. For example, I designed a system to analyze lung sounds by applying noise reduction techniques and utilizing Support Vector Machine (SVM) algorithms to classify respiratory sounds such as wheeze, crackle, stridor, and rhonchi, supporting early detection of respiratory diseases. Additionally, I worked on an AI/ML project focused on predicting Air Quality Index (AQI) values by forecasting PM2.5 levels in the air, implementing algorithms such as XGBoost, AdaBoost, and Random Forests, and analyzing their performance to determine the most effective predictive model.If my background and skills align with your needs, I am available to start from May 14, and I am committed to ensuring a smooth transition into your team. I am very much looking forward to the opportunity to discuss how I can contribute effectively to your initiatives during this fellowship.

Thank you for considering my application.

Sincerely,

Nida Shahnoor