June 12, 2024

Dear DentalSetup.ai Team,

I am writing to express my profound interest in the Software Engineering Intern – AI Copilot for Dentists position, as advertised. As a Bachelor of Science in Artificial Intelligence candidate at Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, graduating in June 2025, my academic background and practical experience align perfectly with DentalSetup.ai's innovative mission to build an **AI-powered copilot for dental practices**.

My final year project, **DentalAI**, involved developing a **CNN-based deep learning model** to **predict dental angles from X-ray images** and was specifically designed to **assist dentists with automated dental analysis**. This direct experience, coupled with coursework in **Deep Neural Network**, **Machine Learning**, **Computer Vision**, and **Natural Language Processing**, positions me to make immediate contributions to your core product development. During my Machine Learning Internship at Kairiz Cyber Technologies, I further honed my skills in **data preprocessing**, **feature engineering**, and contributing to **model optimization**, which are all crucial for advancing predictive analytics solutions using AI techniques.

I am particularly excited by the opportunity to contribute to **AI features powered by LLMs** and help build **RAG pipelines**. While I am eager to learn specific tools like OpenAI, Anthropic, and Pinecone, my strong foundation in AI/ML and **Natural Language Processing** prepares me to quickly adapt and excel in these areas. I am proficient in **Python** and **Node.js**, which are key backend technologies for this role, and possess strong **Problem Solving** and **Analytical Reasoning** skills essential for a dynamic pre-seed startup environment. The prospect of working directly with the CTO and shipping features fast to iterate with real user feedback is incredibly appealing.

Thank you for considering my application. My resume provides further detail on my projects and skills, including experience with **CNNs** and developing predictive algorithms for medical applications. I am enthusiastic about the possibility of contributing to DentalSetup.ai's vision and am available for an interview at your earliest convenience to discuss how my skills and passion for AI can benefit your team, especially with the opportunity for continued work beyond the summer semester.

Sincerely,

Syed Kazim Haider