**Cover Letter –**

Dear Hiring Manager,

I am writing to express my interest in a position within your organization. I am currently in the final semester of my Master of Science in Applied Computer Science at SRH Hochschule Heidelberg. Over the course of my studies, I have developed a strong foundation in full-stack development, cloud computing, and AI technologies through academic projects, industry-focused training, and real-world implementations.

Throughout my academic journey, I have completed several impactful projects, including:

* **AI Chatbot Application** using **React and Node.js**, integrated with **Google Gemini LLM**, **OpenWeather API**, and **News API** to generate real-time, context-aware responses.
* **Hotel Management System** developed in **Java**, focusing on backend logic, data handling, and user access control.
* **E-commerce Website** using **React, Node.js, MongoDB**, and **Firebase** for secure authentication and seamless frontend-backend integration.
* **Parcel Service Application** created using **Next.js**, with live data integration and responsive design features.
* **Image Classification Project** using **AutoML and Custom Training in Google Cloud Platform (GCP)** to evaluate model performance and optimize classification accuracy.
* Several **personal and academic projects** exploring full-stack architecture, REST APIs, frontend frameworks, and cloud-based deployment.

In addition to these hands-on experiences, I have pursued industry-recognized certifications and courses to further strengthen my expertise:

* **IBM Full Stack Software Developer Professional Certificate**: Focused on frontend, backend, deployment, Docker, Kubernetes, CI/CD pipelines, and Generative AI.
* **Python Full Stack Development**: Covering end-to-end application development using Python, Flask/Django, RESTful APIs, and frontend technologies.
* **Microsoft Azure Fundamentals**: Equipped me with cloud concepts, storage, networking, and Azure services for scalable app deployment.

Currently, I am working on my **master’s thesis**, which explores the use of **Retrieval-Augmented Generation (RAG)** for intelligent information extraction from PDFs and web content. This project merges AI, NLP, and search optimization concepts — aligning perfectly with my broader goal of building intelligent, user-focused software solutions.

Technically, I am proficient in **JavaScript (React.js, Node.js, Next.js)**, **Java**, **Python**, **MongoDB**, **SQL**, **Firebase**, and **GCP**. I am also well-versed in Git, Docker, Trello, Postman, and Agile workflows, enabling me to contribute effectively to collaborative development environments.

I am fluent in **English (C1)** and hold a **B2 German certification (Goethe Institute)**, which I continue to improve. My ability to communicate across languages and cultures makes me comfortable working in international, interdisciplinary teams.

What sets me apart is my eagerness to learn, my ability to deliver functional solutions, and my adaptability in working across technologies and domains. I am confident that my skill set, combined with my strong work ethic and problem-solving approach, can add value to your development team.

Thank you for considering my application. I would welcome the opportunity to contribute to your ongoing projects and learn from your experienced team. I look forward to a personal conversation where we can further discuss how I can support your organization.

Sincerely,  
**Ketan Kishor Darekar**