



Aryan Rajesh

B.TECH · CSE GRADUATE

Tirupati, Andhra Pradesh, INDIA

✉ aryanreddy463@gmail.com | 📱 Aryan-Rajesh-Python | 🌐 aryan-rajesh

“Be the change that you want to see in the world.”

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Sub: Cover Letter – Software Developer

Dear Sir/Madam,

About Me

I am Aryan Rajesh, a recent graduate in Computer Science and Engineering from Vellore Institute of Technology, and I am excited to apply for the Software Developer at your company. I am passionate about building and optimizing large-scale machine learning models and believe my background and skills align perfectly with the requirements of your Core AI Machine Learning team.

Throughout my academic and professional journey, I have developed robust data pipelines, trained and deployed deep learning models, and worked extensively on sequence and time series data. My expertise lies in Python, PyTorch, and TensorFlow, and I have hands-on experience with MLOps tools, including Git, CI/CD pipelines, and automating model deployments. Notably, I have built end-to-end machine learning solutions, such as an AI-powered agriculture app for crop and fertilizer recommendations, a medical web app called HealthCure for disease prediction based on scan reports and symptoms, and a house price prediction tool leveraging property data.

In one of my recent projects, I developed data processing pipelines to analyze customer spending and restaurant ratings, enabling restaurant owners in Bangalore to gain actionable insights and maximize profitability. I designed this dashboard using advanced filtering options and customized visualizations, showcasing my ability to work with complex data sets and deliver user-friendly solutions.

Additionally, I am well-versed in managing and fine-tuning models in production environments, constantly iterating on performance and optimizing for efficiency. I have a deep understanding of sequence modeling, which aligns with Tower Research Capital's emphasis on designing and implementing time series models.

Why Us?

I am particularly drawn to your company due to its reputation as a leader in high-frequency trading and its commitment to leveraging cutting-edge technology to drive innovation in the financial sector. The opportunity to work within the Core AI Machine Learning team excites me, as it aligns perfectly with my passion for applying machine learning to solve complex problems in real-time environments.

I admire the firm's focus on data-driven decision-making and its emphasis on optimizing performance through advanced machine learning models. The collaborative culture at your company, where teams are encouraged to experiment and iterate on solutions, resonates with my approach to problem-solving. I believe that my skills and experiences can contribute to the ongoing efforts to enhance model performance and create robust data pipelines that will support Tower's mission of maintaining its competitive edge in the market.

Moreover, your dedication to fostering an environment of continuous learning and professional development is particularly appealing to me. I am excited about the possibility of working alongside some of the brightest minds in the industry, where I can both

contribute and grow.

Why Me?

My background in developing, deploying, and managing large-scale machine learning models, combined with my experience in sequence modeling and MLOps, positions me as an excellent fit for this role. I am adept at working in collaborative environments and thrive in fast-paced, results-driven settings. My analytical mindset and engineering background empower me to solve complex problems effectively, and my hands-on experience with deep learning architectures ensures that I can contribute meaningfully to your Core AI Machine Learning team.

I am eager to bring my skills, fresh ideas, and passion for machine learning to your company. I look forward to the opportunity to discuss how I can contribute to your team.

Sincerely,

Aryan Rajesh