**Chaitanya Belwal**

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**September 28, 2023**

**RE: Tech Lead, Machine Learning Engineer, Recommendation & Algorithm**

**Dear Hiring Manager,**

With great interest and enthusiasm, I am responding to the **Machine Learning Engineer** position that you are currently advertising. My over 20 years of experience as a machine learning engineer, software architect, and technical leader and commitment to achieving the highest data quality aligns exceptionally well with this position.

My work experience and skills have shown me the value of professionalism and have equipped me with the knowledge and work ethic required for long-term success. As evident from my attached resume, I have an exceptional foundation in machine learning and data science, including a PhD in Computer Science with a focus on machine learning and scheduling theory. I have worked extensively with Python libraries like Scikit-Learn, PyTorch, Pandas, and Numpy to build advanced ML models, as well as R and C++ for numerical computing. I have proven myself as highly competent in leading large global teams, mentoring junior engineers, and delivering complex projects on time and within budget. I am excited to bring this combination of ML expertise, leadership, and business acumen to your team.

In addition to my industry experience, I am an open-source contributor, published author, and active learner. I am constantly seeking to expand my skills in emerging ML techniques like transformers and reinforcement learning. Furthermore, my established success in applying machine learning to real problems, combined with my proficiency in agile project management methodsand object-oriented programminglanguages has positioned me to make a significant contribution to your organization.

Throughout my career, I have maintained the highest performance standards within a diverse range. I consider myself a leader, friendly, organized, resourceful, patient, independent, attention to detail, and strong analytical and planning skills with a solid work ethic.

My technical highlights include, but are not limited to the following;

* Developing time series models like SARIMAX and LSTM autoencoders for anomaly detection in large enterprise environments. This reduced alert fatigue by 80% in SOC teams and opened up new market opportunities.
* Creating novel natural language processing techniques like the "Endpoint-as-a-Document" method to cluster endpoints and uncover insights. This led to new upsell opportunities.
* Building deep neural networks in PyTorch for complex tasks like handwriting recognition, reducing costs by 80%.
* Leading the development of innovative architectures for real-time distributed fiber sensing, allowing the company to enter a $500M+ market.

I respectfully submit my resume for your review, as the resume provides more insight into my experience, skills, and education and how it relates to your needs. I will be available at your convenience and look forward to your call to discuss my qualifications in detail.

Thank you for your time and consideration.

Sincerely,

**Chaitanya Belwal**