

## ABHILASHA LODHA

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I am currently pursuing an MS in Computer Science with a Data Science concentration from the **University of Massachusetts Amherst** while interning at **Ericsson** in the Machine Learning department.

In my recent role as a Graduate Research Assistant at **Microsoft MAIDAP**, I worked on parameter-efficient fine-tuning strategies for language encoders. This work holds considerable promise as it enhances the efficiency and effectiveness of language encoders, ultimately advancing the capabilities of NLP and Transfer Learning applications. It has been accepted at the **EMNLP'23** conference.

Prior to starting my Master's journey, I worked for **4 years** at **Accenture** and **EXL** Artificial Intelligence department. During my work experience, I have successfully spearheaded various AI projects for clients in diverse sectors such as healthcare, geomatics, finance, and retail. I am eager to see how AI improves people's lives, and am committed to developing ethical AI systems to ensure the well-being and advancement of humanity.

I am proud to have published two papers at the **CCVPR'21** conference, which were accepted and published by **Springer**. One of these papers involved segmenting non-restricted areas from empty floor spaces and generating recommendations for balcony garden design systems using computer vision. The second paper presented an end-to-end solution for borderless table detection and data extraction from financial documents using a custom-trained deep-learning model.

My enthusiasm for AI extends beyond my professional pursuits, as demonstrated by my active participation in other intellectual proceedings. In **Accenture's Global AI Hackathon**, I presented an IVR-enabled chatbot that assists individuals in reporting civil complaints to the appropriate government authorities, thus addressing issues such as potholes, garbage accumulation, and power outages. Additionally, in **AI.NXT**, a national-level AI competition at Accenture, I worked on developing a geospatial AI solution that derives insights on urbanization growth and changes in natural resources using satellite images and computer vision. I won the first position in both competitions and my efforts were recognized by the Accenture Leadership Team.

Aside from my research and professional endeavors, I am deeply committed to teaching and empowering underserved communities. I have taken several sessions on Python and Adobe Photoshop for High School students under my tech start-up **'Design Dockyard'** wherein I provided design services besides developing web applications. By serving 50+ international clients, I gained real-time exposure in enhancing my collaborative engagements besides imparting valuable technical skills to deserving and needy students.

In conclusion, I am excited about the opportunity to contribute my skills and expertise to an innovative organization like yours. I believe that my background in computer science, extensive experience in AI, and passion for ethical and innovative solutions align perfectly with the company's mission and goals. I am eager to collaborate with industry experts, learn from their mentorship, and apply cutting-edge methods to drive meaningful advancements. By joining your organization, I look forward to harnessing the power of AI for the greater good and working towards a better future.

Thank you for your time and consideration.

Best Regards,

Abhilasha Lodha