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Professor

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To whom so ever it may concern

Mr. Aviral Chharia spent three months as an intern from 1st April to 29th Jun, 2020 with my group. He worked on Automatic Image Captioning using Deep Neural Nets. The goal was to build a neural image caption generator that describes image contents with proper linguistic properties. He implemented a VGG-16 net CNN to extract image feature vectors and an LSTM network to generate novel descriptions from these feature vectors over image regions. He further tested the model on Flickr 8K Dataset and results obtained were at par with the state of the art paper using similar implementation. He is further working to improvise this model to aid the visually impaired people. I must say that he has acquired a good knowledge and understanding of deep learning techniques during this internship program.

I have been very much impressed by the quality of Aviral's work during this research project. Moreover, his programming skills distinguishes him from his peers. He has been very quick at understanding a new area, designing efficient deep learning models and implementing them. I find Aviral a very nice person with whom it is very easy to interact. During the project, he gave nice presentations of his work. I am sure that the quality of his work coupled with his innate abilities will ensure that he makes significant contributions to whichever field he puts his effort towards.

Aviral is an extremely talented student. I recommend him very strongly.

Dr. Laxmidhar Behera

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