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DEEP CONVOLUTIONAL NEURAL NETWORKS FOR LVCSR Tara N. Sainath 1, Abdel-rahman Mohamed2, Brian Kingsbury , Bhuvana Ramabhadran1 1IBM T. J. Watson Research Center, Yorktown Heights, NY 10598, U.S.A. 2Department Of Computer Science, University Of Toronto, Canada 1tsainath, Bedk, Bhuvanag@us.ibm.com, 2asamir@cs.toronto.edu ABSTRACT

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