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<p>(51) International classification :G06N0003040000, G06N0020000000, G06N0003080000, G06T0007000000, G06K0009620000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)R.V.R. &amp; J.C. COLLEGE OF ENGINEERING</b> Address of Applicant :R.V.R. &amp; J.C. COLLEGE OF ENGINEERING, GUNTUR-522019, ANDHRA PRADESH, INDIA ----- <b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)DR. K. RAMBABU (PROFESSOR &amp; HEAD)</b> Address of Applicant :Department of Chemistry, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>2)DR. CH. RAMAKRISHNA (ASSOCIATE PROFESSOR)</b> Address of Applicant :Department of Chemistry, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>3)DR. M. MURALI (ASSOCIATE PROFESSOR)</b> Address of Applicant :Department of Chemistry, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>4)DR. P. VENKATESWARA RAO (ASSISTANT PROFESSOR)</b> Address of Applicant :Department of Chemistry, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>5)DR. M. SRINIVASA RAO (ASSISTANT PROFESSOR)</b> Address of Applicant :Department of Chemistry, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>6)DR. N. SRINIVASA RAO (ASSISTANT PROFESSOR)</b> Address of Applicant :Department of Chemistry, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>7)DR. P. SAMATHA CHOWDARY (ASSISTANT PROFESSOR)</b> Address of Applicant :Department of Civil Engineering, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>8)MS. N. TEJASWINI (ASSISTANT PROFESSOR)</b> Address of Applicant :Department of Civil Engineering, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>9)MR. GUNNAM SANIJYA (ASSISTANT PROFESSOR)</b> Address of Applicant :Department of Civil Engineering, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India ----- <b>10)MR. YENIGANDLA NAGA MAHESH (ASSISTANT PROFESSOR)</b> Address of Applicant :Department of Civil Engineering, R.V.R. &amp; J.C. College of Engineering, Guntur-522019, Andhra Pradesh, India -----</p>
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(57) Abstract :  
ABSTRACT METHOD AND SYSTEM FOR PROVIDING MACHINE LEARNING (ML) MODEL FOR ASSESSING CORROSION AND DURABILITY OF MATERIALS IN REAL TIME TO ASSIST CIVIL CONSTRUCTIONS The present invention provides a method for assessing corrosion and metal durability in civil constructions. The method utilizes Machine Learning (ML) models for assessing corrosion and durability of materials in real to assist civil constructions. The method receives the image of the surface, processes the image using a machine learning algorithm configured to detect the defect, the machine learning algorithm comprising a convolutional neural network including, at least one convolution layer; and displays the image with location of the defect being indicated if determined to be present by the convolutional neural network.

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