

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5433937

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAYARAM KALLAPALAYAM RADHAKRISHNAN	03/14/2019
VINOD MUTHUSAMY	03/13/2019
VATCHE ISAHAGIAN	03/14/2019
SCOTT BOAG	03/18/2019
BENJAMIN HERTA	03/18/2019
ATIN SOOD	03/18/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTERNATIONAL BUSINESS MACHINES CORPORATION
<b>Street Address:</b>	NEW ORCHARD ROAD
<b>City:</b>	ARMONK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10504
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16358896
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)761-2375
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	admin@mcginniplaw.com
<b>Correspondent Name:</b>	MCGINN I.P. LAW GROUP, PLLC.
<b>Address Line 1:</b>	8321 OLD COURTHOUSE ROAD, SUITE 200
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<b>ATTORNEY DOCKET NUMBER:</b>	P201900397AUS01
<b>NAME OF SUBMITTER:</b>	GEOFFREY K. PECHIE
<b>SIGNATURE:</b>	/Geoffrey K. Pechie/
<b>DATE SIGNED:</b>	03/20/2019
<b>Total Attachments: 7</b> source=Dec#page1.tif	

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**DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN  
APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT**

As a below named inventor, I hereby declare that:

**SCALABLE MULTI-FRAMEWORK MULTI-TENANT LIFECYCLE MANAGEMENT OF  
DEEP LEARNING APPLICATIONS**

This declaration is directed to the attached application, or (if following box is checked):

United States application or PCT international application number ..... filed on  
.....

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

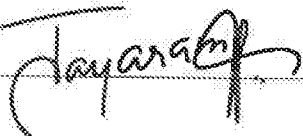
Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal

representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: Jayaram Kallapalayam Radhakrishnan

Signature:  Date: 14 March 2019

(2) Legal Name of Inventor: Vinod Muthusamy

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: Vatche Isahagian

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: Scott Boag

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(5) Legal Name of Inventor: Benjamin Herta

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(6) Legal Name of Inventor: Atin Sood

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(2) Legal Name of Inventor: Vinod Muthusamy

Signature:  \_\_\_\_\_ Date: March 13, 2019

(3) Legal Name of Inventor: Vatche Isahagian

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: Scott Boag

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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(2) Legal Name of Inventor: Vinod Muthusamy

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: Vatche Isahagian

Signature:  \_\_\_\_\_ Date: March 16/2017

(4) Legal Name of Inventor: Scott Boag

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(5) Legal Name of Inventor: Benjamin Herta

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(1) Legal Name of Inventor: Jayaram Kallapalayam Radhakrishnan

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

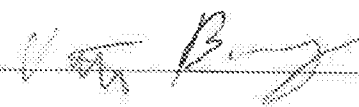
(2) Legal Name of Inventor: Vinod Muthusamy

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

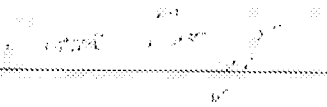
(3) Legal Name of Inventor: Vatche Isahagian

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: Scott Boag

Signature:  \_\_\_\_\_ Date: 03/18/2019

(5) Legal Name of Inventor: Benjamin Herta

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

(6) Legal Name of Inventor: Atin Sood

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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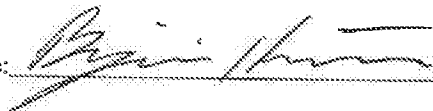
(3) Legal Name of Inventor: Vatche Isahagian

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(4) Legal Name of Inventor: Scott Boag

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(5) Legal Name of Inventor: Benjamin Herta

Signature:  \_\_\_\_\_ Date: March 18, 2019

(6) Legal Name of Inventor: Atin Sood

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(5) Legal Name of Inventor: Benjamin Herta

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(6) Legal Name of Inventor: Afim Sood

Signature: Afim Sood Date: 18 MAR 2019