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पेटेंट कार्यालय का एक प्रकाशन  
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## **INTRODUCTION**

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01<sup>st</sup> January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**( PROF. (DR) UNNAT P. PANDIT )  
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(71)Name of Applicant :  
**1)Swami Rama Himalayan University**  
 Address of Applicant :Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant, Dehradun-248016 Dehradun -----

**Name of Applicant : NA**  
**Address of Applicant : NA**

(72)Name of Inventor :  
**1)Sameer Rajesh Chavan**  
 Address of Applicant :Near Patil Milk Shop, Sindhi Camp, Akola, Maharashtra - 444001 Dehradun -----

**2)Rishabh Riyal**  
 Address of Applicant :Jonk Swargashram, Rishikesh, Uttarakhand - 249304 Dehradun -----

**3)Shishir Tiwari**  
 Address of Applicant :Bhogpur, Ranipohkhri, Dehradun, Uttarakhand - 248143 Dehradun -----

**4)Saksham Thapliyal**  
 Address of Applicant :Ward No 9, Balsi, Atthurwala Dehradun, Uttarakhand - 248140 Dehradun -----

**5)Dr. Anupama Mishra**  
 Address of Applicant :Department of Computer Science and Engineering, School of Science and Technology, Swami Rama Himalayan University, Jolly Grant, 248016 Dehradun -----

(57) Abstract :

The present invention provides a creation system for experimentation, creation, and machine learning. The system enables non-technical users to upload datasets in CSV or Excel formats and performs data preprocessing, feature engineering, model selection, training, hyperparameter tuning, evaluation, and model export without requiring programming skills. It includes automated handling of missing values, encoding of categorical variables, correlation analysis, and dimensionality reduction using PCA. The platform supports various classification and regression algorithms and optimizes them through grid and random search methods. Model evaluation is performed using relevant performance metrics, and trained models can be exported in Pickle format. The system is built using Streamlit and Scikit-learn for a user-friendly and efficient experience. Figure 1

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