



**Dr. D. Y. Patil**  
 Founder, Dr. D. Y. Patil Group

**Dr. Sushant Patil**  
 President, DYPEF

**Dr. Suresh Mali**  
 Principal, DYPCOEI

## Department of Artificial Intelligence and Data Science

### Monthly Report: June 2024

#### IPR Activity: Filing a Copyright

Mr. Suraj Bhoite, Assistant Professor, and Vinay Pachore & Avdhut Jadhav (TE-AIDS Students), Department of Artificial Intelligence and Data Science filing a copyright on “Enchaining Emergency Response for Travelers with Legal Consistency using Machine Learning” at 21st March 2024.

Diary Number	Class of Work	Title of Work	Applicant Name	Communication Address	Status
11401/2024-CO/L	Literary/ Dramatic	Enchaining Emergency Response for Travelers with Legal Consistency using Machine Learning	AVDHUT J. JADHAV	DR. D. Y. PATIL COLLEGE OF ENGINEERING AND INNOVATION, SR. NO. 27/A/1/2C, NEAR ECO CITY, TALEGAON, VARALE, PUNE, MAHARASHTRA, INDIA- -410507	Registered
11401/2024-CO/L	Literary/ Dramatic	Enchaining Emergency Response for Travelers with Legal Consistency using Machine Learning	MR. SURAJ BHOITE	DR. D. Y. PATIL COLLEGE OF ENGINEERING AND INNOVATION, SR. NO. 27/A/1/2C, NEAR ECO CITY, TALEGAON, VARALE, PUNE, MAHARASHTRA, INDIA- -410507	Registered
11401/2024-CO/L	Literary/ Dramatic	Enchaining Emergency Response for Travelers with Legal Consistency using Machine Learning	VINAY S. PACHORE	DR. D. Y. PATIL COLLEGE OF ENGINEERING AND INNOVATION, SR. NO. 27/A/1/2C, NEAR ECO CITY, TALEGAON, VARALE, PUNE, MAHARASHTRA, INDIA- -410507	Registered



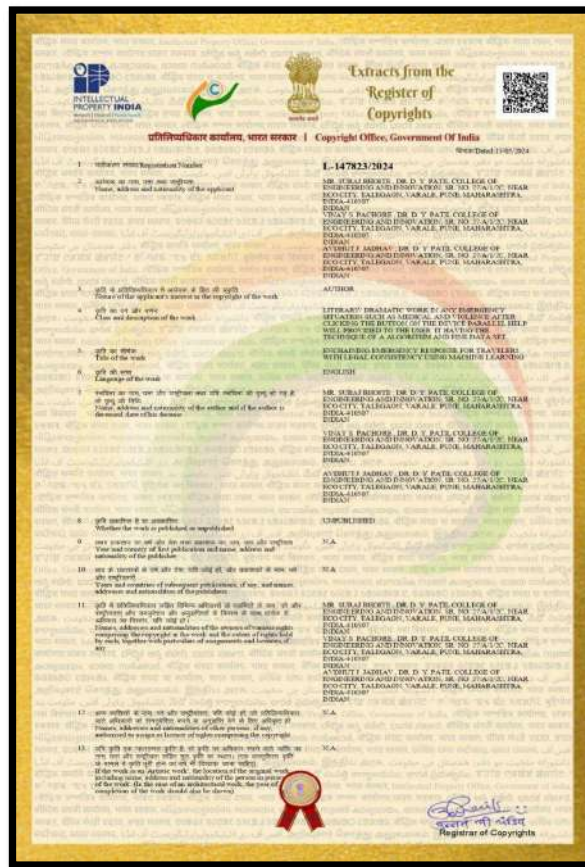


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Literary work of copyright, to create a Device by which we can save the life of the people on one click. The Device consists of a Camera, Transmitter, Audio Recorder, e-SIM Modulator, Automatic GPS Tracker, Two Helpline Buttons, OS(Advance), Battery, and Metal Frame. In any emergency situation (such as Medical and Violence) after clicking the button on the device parallel help will be provided to the user. It having the technique of A\* Algorithm (Finding Shortest Path) and a fine Data Set with the configuration of maps (location). Then the data set will pass those signals to the nearest resource. Requesting for help to the nearest resource found by the A\* Algorithm on the approval of the request, Help is granted then the resources (Hospital or Police) reach the user with the required help.





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**Published Patent on:**

Title of the invention: SMART FRIDGE WITH ARTIFICIAL INTELLIGENCE DRIVEN BREAKFAST, LUNCH AND DINNER PREFERENCES



**Mrs. Dipannita Mondal, IQAC Coordinator and Head, Dept. of AI&DS**

Mrs. Dipannita Mondal, IQAC Coordinator and Head, Department of Artificial Intelligence and Data Science, published her fourth patent entitled “SMART FRIDGE WITH ARTIFICIAL INTELLIGENCE DRIVEN BREAKFAST, LUNCH AND DINNER PREFERENCES”

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202441034105 A
(19) INDIA	
(22) Date of filing of Application :30/04/2024	(43) Publication Date : 10/05/2024
(54) Title of the invention : SMART FRIDGE WITH ARTIFICIAL INTELLIGENCE DRIVEN BREAKFAST, LUNCH AND DINNER PREFERENCES	
	(71)Name of Applicant : 1)Dr S A Sivakumar Address of Applicant :Associate Professor - ECE, Dr.N.G.P. Institute of Technology, Coimbatore. ----- 2)Prof. Dipannita Mondal

**Motivation:** The Artificial intelligence based shrewd cooler integrates progressed elements to reform the client experience and advance proficiency. Users can monitor and control the refrigerator in real time from anywhere with internet connectivity and an IoT server integration with an Android app. Key elements incorporate a smell sensor that identifies lapsed items, guaranteeing newness, mindfulness, and convenient removal. Fruits and vegetables that are





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stored are recognized by a built-in camera, allowing the app to provide recipe suggestions based on the ingredients that are available. This element limits food squander as well as gives helpful dinner thoughts. Besides, a weight balance framework shows the amount of put away organic products, supporting clients in settling on informed shopping for food choices. The shrewd fridge's natural plan and wise highlights make it easy to use, upgrading food stockpiling the executives and utilization proficiency in current kitchens.

For Details visit : <https://search.ipindia.gov.in/IPOJournal/Journal/Patent>

### **Celebrating a Milestone:**

Mrs. Dipannita Mondal submits Ph.D. Thesis in the field of Brain Communication and Brain Mapping



**Mrs. Dipannita Mondal, IQAC Coordinator and Head, Dept. of AI&DS**

Title of the Thesis: DESIGN OF HYBRID DIGITAL FILTER FOR ANALYSIS OF EEG SIGNALS FROM COMA PATIENTS

We are thrilled to announce that Mrs. Dipannita Mondal, IQAC Coordinator and Head, Department of Artificial Intelligence and Data Science a dedicated international doctoral candidate has successfully submitted her PhD thesis titled “ DESIGN OF HYBRID DIGITAL FILTER FOR ANALYSIS OF EEG SIGNALS FROM COMA PATIENTS” at Lincoln





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University College, Kuala Lumpur Malaysia which is having QS World Ranking of 199 and Asian Ranking of 48 in Quality Education. Her significant achievement marks the culmination of years of rigorous research and academic dedication in the field of brain-to-brain communication and mapping.

**Motivation:** Designing a hybrid digital filter for EEG signals from coma patients aims to enhance diagnostic accuracy and monitoring by effectively reducing noise and isolating critical features. By combining different filtering techniques, it provides real-time, customizable, and precise analysis tailored to individual patients. This approach improves the signal-to-noise ratio, aids in better neurological assessments, and informs treatment decisions, ultimately leading to improved patient outcomes. Furthermore, it drives technological innovation in digital signal processing and advances medical research, offering new insights into brain function and neurological conditions.

### **Student Development Program**

#### **EXPERT SESSION ON “AI & DS CAREER PATHS, SKILLS, ROLES & OPPORTUNITIES”**

Expert Session on “AI & DS Career Paths Skills, Roles & Opportunities in AI & DS” has organized by, DYPCOE&I, Varale, Talegaon, Pune. The session was attended by 50+ students from the Department of Artificial Intelligence and Data Science.

In this Expert Session they discuss us following points –

1. Overview of AI,
2. Key Areas in AI,
3. Career Opportunities in AI
4. Skills & Education Pathways,
5. Trends & Future of AI,
6. Q&A,
7. Conclusion.





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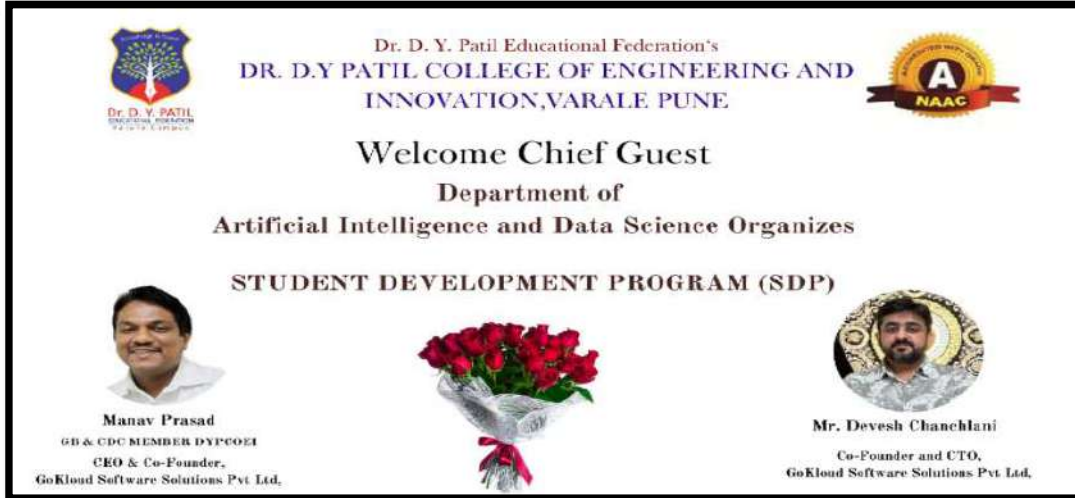


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This session was Interactive and Students have enjoyed session delivered by both resource person Mr. Manav Prasad Sir (Online) & Mr. Devesh Chanchlani (Offline).



**Flyer of Expert Session on AI & DS Career Paths, Skills, Roles & Opportunities**



**Sariswati Vandana by chief guest Mr. Devesh Chanchlani**





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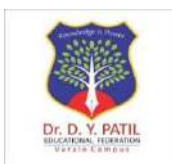
**Dr. Suresh Mali**  
 Principal, DYPCOEI

## PRE-PLACEMENT TRAINING

1. Industry Training on “Core Java”
2. Industry training on “Python”
3. Beyond Basics Python
4. Aptitude Training

<b>Title of the Activity:</b>	Industry Training on “Core Java”
<b>Day and Date:</b>	Monday to Sunday, 10th June to 21th June 2024
<b>Time:</b>	10AM To 04.00PM
<b>Venue:</b>	Seminar Hall (106) Practical session Lab A(113) &A(110)
<b>Name of Speaker</b>	Mr. Yogesh Patil
<b>Organization of Speaker</b>	Giri's Tech Hub Trainer (Giri's Tech Hub Trainer)
<b>Category of the Activity:</b>	Extra-Curricular
<b>Objectives:</b>	To give students a basic introduction to programming and problem solving with the computer language Core Java.
<b>Summary Report:</b>	Industry Training on “Core Java” has organized by, DYPCOE&I, Varale, Talegaon, Pune.  The session was attended by 26+ students from the Artificial Intelligence and Data Science Engineering Department.  In this training student solve python program assignment and Mini Projects. Session was Interactive and Students have enjoyed session delivered by resource person Mr. Yogesh Patil.
<b>No. of Students Participated:</b>	26 Students from Departement of AI&DS
<b>Outcome:</b>	Inculcate and apply various skills in problem solving. Demonstrate significant experience with the Core Java program development environment.





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<b>Title of the Activity:</b>	Industry Training on “Python”
<b>Day and Date:</b>	Monday to Friday, 10th June to 21th Jun 2024
<b>Time:</b>	10.00AM To 04.00PM
<b>Venue:</b>	A108, A202 Lab, A203 Lab, DYPCOE&I
<b>Name of Speaker</b>	Mr. Rakesh Chaure, Ms. Shivani Dang
<b>Organization of Speaker</b>	Gyanteerth
<b>Category of the Activity:</b>	Extra-Curricular
<b>Objectives:</b>	To give students a basic introduction to programming and problem solving with the computer language Python.
<b>Summary Report:</b>	Industry Training on “Python” has organized by, DYPCOE&I, Varale, Talegaon, Pune. The session was attended by 30+ students from the BE-Artificial Intelligence and Data Science Engineering Department. In this training student solve python program assignment and Mini Projects. Session was Interactive and Students have enjoyed session delivered by resource person Ms. Namrata Sri Tiwari, Ms. Rutuja V Kature.
<b>No. of Students Participated:</b>	30 Students from Departement of AI&DS
<b>Outcome:</b>	Inculcate and apply various skills in problem solving. Demonstrate significant experience with the Python program development environment. Students create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets. Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions. Students manipulate Python programs by utilizing the range() function. A built-in function in Python using which a sequence of numbers is generated within a given range







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<b>Title of the Activity:</b>	Pre-Placement Training Beyond Basics Python
<b>Day and Date:</b>	Monday to Friday, 10th June to 21th Jun 2024
<b>Time:</b>	10.00AM To 04.00PM
<b>Venue:</b>	A208, A102 Lab
<b>Name of Speaker</b>	Mr. Harshvardhan
<b>Category of the Activity:</b>	Extra-Curricular
<b>Objectives:</b>	To give students a basic introduction to programming and problem solving with the computer language Python.
<b>Summary Report:</b>	Industry Training on “Python” has organized by, DYPCOE&I, Varale, Talegaon, Pune. The session was attended by 40+ students from the TE-Artificial Intelligence and Data Science Engineering Department. Session was Interactive and Students have enjoyed session delivered by resource person Mr. Harshvardhan
<b>No. of Students Participated:</b>	40 Students from Department of AI-DS
<b>Outcome:</b>	To understand Inculcate and apply various skills in problem solving.

**Ms. Deepali Narwade**  
Coordinator

**Dr. Dipannita Mondal**  
Head, Dept. of AI&DS

**Dr. Suresh Mali**  
Principal

