



Department IPR Summary

Department: Computer Engineering

Academic Year: 2025 - 26

Sem : I

Details of Patent applications

Patents	Filed	Published	Granted	Total
Filed with PCCoE as an Applicant	3	11	4	18
Filed with the name of Individual Faculty/ Student	2	3	0	5

Sr. No.	Type of Patent (Utility / Design)	National / International	Title of Patent / Design	Name of Applicant	Name of Inventor/s	Application Number	Date of Filing	Date of Publication	Date of Grant	Status (Filed / Published / Registered / Granted)
1	Utility	Indian	Voice Interfaface for LLMs	Pimpri Chinchwad College of Engineering, Dr. Reena Kharat, Apoorva Khajbage, Swapnil Kapale, Aabid Kachhi, Sanket Kadam	Dr. Reena Kharat, Apoorva Khajbage, Swapnil Kapale, Aabid Kachhi, Sanket Kadam	202521047032	15/5/2025	5/9/2025		Published

2	Utility	Indian	Hybrid CNN-ML Framework for Quality and Difficulty-Based Rating Classification: Insights from the Rate My Professor Dataset	Pimpri Chinchwad College of Engineering, Dr.Geetanjali Sharma , Kavya Veer , Tejas Weldode , Vedant Pawar , Imadoddin Shaikh	Dr.Geetanjali Sharma , Kavya Veer , Tejas Weldode , Vedant Pawar , Imadoddin Shaikh	202521047906	18/5/2025	11/7/2025		Published
3	Utility	Indian	Portable Lever-Based Manual Coffee Brewer for Optimal Flavor Extraction	Pimpri Chinchwad College of Engineering, Sonali Patil, Swati Jadhav, Sagar Mohite, Dipali Railkar	Sonali Patil, Swati Jadhav, Sagar Mohite, Dipali Railkar	202521047875	17/5/2025	11/7/2025		Published
4	Utility	Indian	System and Model for real-time detection of location and damage to the baggage in airline baggage handling	Pimpri Chinchwad College of Engineering, Dr. Pravin S. Game, Trupti Gunjal, Rashmi Patil, Prathamesh Kshirsagar, Sara Gaidhane , Aditya Bhalerao.	Dr. Pravin S. Game, Trupti Gunjal, Rashmi Patil, Prathamesh Kshirsagar, Sara Gaidhane , Aditya Bhalerao.	202521047033	15/5/2025	5/9/2025		Published
5	Utility	Indian	ParkPoolX: A Smart Parking and Carpooling Management System	Pimpri Chinchwad College of Engineering, Dr. Prof. Sonali Patil , Mohit Bagul , Atharv Bhadange, Uday Berad, Atharv Abhang	Dr. Prof. Sonali Patil , Mohit Bagul , Atharv Bhadange, Uday Berad, Atharv Abhang	202521047903	18/5/2025	11/7/2025		Published
6	Utility	Indian	A ubiquitous System for Secure Breast Cancer Detection using Portable Image acquisition	Pimpri Chinchwad College of Engineering, Dr. K. Rajeswari, Ms. Dipali Ghatge, N Vivekanandan, Sushma Vispute	Dr. K. Rajeswari, Ms. Dipali Ghatge, N Vivekanandan, Sushma Vispute	202521047578	17/5/2025	4/7/2025		Published

7	Utility	Indian	Intelligent Traffic Signal Control System with Real-time Optimization	Pimpri Chinchwad College of Engineering, Dr. Rahul Patil, Mahesh Dargad, Tanmay Jagtap, Naveen Kakumanu, Amit Dekate	Dr. Rahul Patil, Mahesh Dargad, Tanmay Jagtap, Naveen Kakumanu, Amit Dekate	202521047583	17/5/2025	11/7/2025		Published
8	Utility	Indian	Wearable device specially designed to detect abnormal head movement associated with positional vertigo and trigger an immediate alert	Pimpri Chinchwad College of Engineering, Rajeswari. K. N. Vivekanandan, S.P Salve, Sushma Vispute	Rajeswari. K. N. Vivekanandan, S.P Salve, Sushma Vispute	202521047907	18/5/2025	11/7/2025		Published
9	Utility	Indian	Human Posture Detection for Enhancing Rehabilitation.	Pimpri Chinchwad College of Engineering, Mahalakshmi Bodireddy, Aditi Aher, Aditi Dabhade, Pranjali Deshpande, Shriniwas Dhage	Mahalakshmi Bodireddy, Aditi Aher, Aditi Dabhade, Pranjali Deshpande, Shriniwas Dhage	202521047573	17/5/2025	4/7/2025		Published
10	Utility	Indian	Plastic Trash Detection Systems for Marine Environmnet And A Method Thereof	Pimpri Chinchwad College of Engineering, Dr. Deepa Abin, Sarang Deo, Sunny Gunjwate, harsh Borse	Dr. Deepa Abin, Sarang Deo, Sunny Gunjwate, harsh Borse	202421037637	13/05/2024	14/06/2024	30/12/2025	Granted
11	Utility	Indian	System and Method for Retrieval of Generic Medicine Substitutes using a Multi-Value Categorical Data Clustering Approach	Dr. K. Rajeswari, Dr. N. Vivekanandan, Ajinkya VishnuJiman	Dr. K. Rajeswari, Dr. N. Vivekanandan, Ajinkya VishnuJiman	202321032290	07/05/2023	15/9/23	31/12/2025	Granted
12	Utility	Indian	SYSTEM AND METHOD FOR UTILIZING DIGITAL FOOTPRINTS OF A USER TO GENERATE CONVERSATIONAL AI THEREOF	Pimpri Chinchwad College of Engineering, Mr. Dipesh Walte, Mrs. Archana Kadam, Raj Firke, Om kolte, Omkar Bhale, Ankita Nandy	Mr. Dipesh Walte, Mrs. Archana Kadam, Raj Firke, Om kolte, Omkar Bhale, Ankita Nandy	202421048008	22/06/2024	19/07/2024	16/12/2025	Granted

13	Utility	Indian	Smart Surveillance System for Supermarkets using Deep Learning	Pimpri Chinchwad College of Engineering, Archana Kadam, Vedant Chaudhari, Shamik Ghadge, Shrutika Ambre, Akshay Shinde	Archana Kadam, Vedant Chaudhari, Shamik Ghadge, Shrutika Ambre, Akshay Shinde	202321032293	07/05/2023	15/09/2023	15/10/2025	Granted
14	Utility	Indian	DRONE-BASED NON-CONTACT AI-ENABLED SYSTEM FOR PREDICTIVE MONITORING OF BIOFLOC AQUACULTURE POND WATER QUALITY	1 . Pimpri Chinchwad College of Engineering (PCCoE), Pune 2 . Chitra Chandrashekhar Patgar 3 . Dr. Swati V. Shinde	1 . Pimpri Chinchwad College of Engineering (PCCoE), Pune 2 . Chitra Chandrashekhar Patgar 3 . Dr. Swati V. Shinde	202621000156	01/01/2026	13/02/2026		Filed &Published
15	Utility	Indian	A PREDICTIVE AND PROACTIVE HANDOVER SYSTEM AND METHOD FOR SEAMLESS MOBILITY IN LI-FI COMMUNICATION NETWORKS	1 . Pimpri Chinchwad College of Engineering (PCCoE), Pune 2 . Tanya Shruti 3 . Atharv Rao 4 . Prathamesh Jadhav 5 . Sanika Tare 6 . Navya Saxena	1 . Pimpri Chinchwad College of Engineering (PCCoE), Pune 2 . Tanya Shruti 3 . Atharv Rao 4 . Prathamesh Jadhav 5 . Sanika Tare 6 . Navya Saxena	202521134643	31/12/2025	13/02/2026		Filed &Published
16	Utility	Indian	LuxAuth AI : Blockchain-Powered Authentication for Luxury Brands	Dr. Sonali Patil	Dr. Sonali Patil	202621020085	20/02/2026			Filed
17	Design	National	Crop Growth and Yield Monitoring Robot	Prof Kishor Jadhav	Prof Kishor Jadhav, Deepali Jawale	461242-001	04/06/2025	19/9/2025		Published

18	Design	National	Design Of a Secure Authentication Device For Digital Access.	1. DR. CHHAYA NAYAK 2. MR. ANIL PAWAR 3. MS. ROHINI TAMBE 4. VIDYA S BHOSALE 5. SNEHAL RUPESH MALPANI 6. MRS. SHRUTI SEKRA	1. DR. CHHAYA NAYAK 2. MR. ANIL PAWAR 3. MS. ROHINI TAMBE 4. VIDYA S BHOSALE 5. SNEHAL RUPESH MALPANI 6. MRS. SHRUTI SEKRA	479805-001	11/11/25	23/01/2026	-	Filed and Published
19	Utility	National	INTEGRATED IOT AND BIG DATA ARCHITECTURE FOR SMART AND SUSTAINABLE AGRICULTURAL SYSTEMS	Dr. Smita Chetankumar Khairnar	Dr. Smita Chetankumar Khairnar Prof. Jyoti Nagnath Gavhane Dr. Amruta Vijay Surana Dr. Mayuri H. Molawade Ms. Sneha Sudhakar Satpute Mrs. Dhanashri Rohan Patil Dr. Vitthal Sadashiv Gutte	202521134068 A	31/12/2025	13/02/2026	-	Filed & Published

Details of Copyright Details:

Copyright	Filed	Registered	Abandoned	Total
Filed with PCCoE as an Applicant	1	21	0	22

Sr. No.	Title of Copyright	Name of Applicant	Name of Author/s	Date of Filing	Date of Registration	Dairy Number	RoC Number (After registration)	Status (Filed / Registered)
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Filed with the name of Individual Faculty/ Student	0	0	0	0
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1	Federated and Self-Supervised Intrusion Detection System for Energy-Efficient Edge Devices	Paras Kacha, Dr. Swati Shinde	Paras Kacha, Dr. Swati Shinde	12/04/2025	06/08/2025	14342/2025-CO/L	LD-20250170180	Registered
2	Development of an AI-Powered Assistive Solution for Enhancing Mobility and Independence of Visually Impaired Individuals.	Dr. Reena Kharat, Omkar Kulkarni, Amruta Kothawade, Soham Joshi, Sakshi Jadhav	Dr. Reena Kharat, Omkar Kulkarni, Amruta Kothawade, Soham Joshi, Sakshi Jadhav	27/04/2025	14/08/2025	LD-16914/2025-CO	LD-20250171737	Registered
3	E-Link: Transforming E-Waste Management through AI-Driven Insights, Repair, Repurposing, Recycling, and Awareness	Dr. Sonali Patil, Atharv Rao, Navya Saxena, Sanika Tare, Prathamesh Jadhav	Dr. Sonali Patil, Atharv Rao, Navya Saxena, Sanika Tare, Prathamesh Jadhav	6/2/2025	21/07/2025	4218/2025-CO/L	LD-20250168634	Registered
4	Book Bridge : Empowering Education by connecting Donors to Readers	Mrs. Mehzabin Pathan, Harshal Patil, Pruthviraj Desale, Yash Gondane	Mrs. Mehzabin Pathan, Harshal Patil, Pruthviraj Desale, Yash Gondane	10/2/2025	24/07/2025	4660/2025-CO/L	LD-20250169159	Registered

5	Community Job Portal : Bridging Gaps between Employers and Workers	Mrs. Madhuri Suryavanshi, Team Members: Ishwari Walke, Manali Thorat, Pranoti Musmade, Ishani Soundankar	Mrs. Madhuri Suryavanshi, Team Members: Ishwari Walke, Manali Thorat, Pranoti Musmade, Ishani Soundankar	7/2/2025	08/08/2025	14304/2025-CO/L	LD-20250170277	Registered
6	ProFile - AI-Based Resume Builder	Dr. Aparna Joshi, Disha Andre, Anishka Sah, Preksha Gangwal, Gargi Gogulwar	Dr. Aparna Joshi, Disha Andre, Anishka Sah, Preksha Gangwal, Gargi Gogulwar	7/2/2025	22/07/2025	4243/2025-CO/L	LD-20250168984	Registered
7	EXCESSIVE FOOD MANAGEMENT FOR COMMUNITY	Smita Khairnar, Kuldeep Gheghate, Sanket Jadhav, Karan Jadhav, Atharv Jadhav	Smita Khairnar, Kuldeep Gheghate, Sanket Jadhav, Karan Jadhav, Atharv Jadhav	8/2/2025	21/07/2025	4217/2025-CO/L	LD-20250168561	Registered
8	CureMe - "Your Health, Your Choice"	DR. K.RAJESWARI, LIKHIT CHAUDHARY, ADITYA CHAVAN, ADHYAYAN GOYAL, ATHARVA NAIK	DR. K.RAJESWARI, LIKHIT CHAUDHARY, ADITYA CHAVAN, ADHYAYAN GOYAL, ATHARVA NAIK	6/2/2025	21/07/2025	4135/2025-CO/L	LD-20250168686	Registered

9	Crop Disease Prediction	Mrs. B. Mahalakshmi, Yash Chavan, Ranjit Chavan, Prathamesh Doiphode, Sudarshan Gaikwad	Mrs. B. Mahalakshmi, Yash Chavan, Ranjit Chavan, Prathamesh Doiphode, Sudarshan Gaikwad	22/2/2025	01/08/2025	4376/2025-CO/L	LD-20250169623	Registered
10	Agro Product App: An app for buying and selling agricultural products.	Dr. Aparna Joshi, Swayam Mandhani, Mohd. Zeeshan Siddique, Pruthviraj Mule, Khush Paliwal	Dr. Aparna Joshi, Swayam Mandhani, Mohd. Zeeshan Siddique, Pruthviraj Mule, Khush Paliwal	11/2/2025	21/07/2025	4678/2025-CO/L	LD-20250168587	Registered
11	Robotic trash collector	Dr. Sarika Deokate, Akanksha Kale, Prathamesh Mulay, Rutuja Jagtap	Dr. Sarika Deokate, Akanksha Kale, Prathamesh Mulay, Rutuja Jagtap	4/2/2025	01/08/2025	4069/2025-CO/L	LD-20250169548	Registered
12	EnergySaverHub :- Energy Monitoring Website for Saving Electricity and use of AI tools	Dr. Meghana Lokhande, Vivek Walunj, Swarnim Survase, Varun Goel	Dr. Meghana Lokhande, Vivek Walunj, Swarnim Survase, Varun Goel	7/2/2025	21/07/2025	4251/2025-CO/L	LD-20250168647	Registered
13	FloraCare - Plant Disease Detection App for Community Support	Mrs. Mehzabin F. Pathan, Parth Sunklod, Harsh Rajshirke, Sajjan Pawar, Sahil Kasture	Mrs. Mehzabin F. Pathan, Parth Sunklod, Harsh Rajshirke, Sajjan Pawar, Sahil Kasture	11/2/2025	04/08/2025	4509/2025-CO/L	LD-20250169693	Registered

14	LearnBridge: Enable Connections between Learners and Educators	Ashwini Matange,Gitanjali Gamane, Sneha Kamble, Mitali Chaudhari, Sejal Jain	Ashwini Matange,Gitanjali Gamane, Sneha Kamble, Mitali Chaudhari, Sejal Jain	6/2/2025	01/08/2025	4232/2025-CO/L	LD-20250169586	Registered
15	Food Grain And Quality Tester	Swati Chandurkar,Sarthak Waghre,Datta Sable,Vedant Sable,Yash Talpe	Swati Chandurkar,Sarthak Waghre,Datta Sable,Vedant Sable,Yash Talpe	7/2/2025	04/08/2025	4365/2025-CO/L	LD-20250169642	Registered
16	Enhancing Security In Blockchain Based Federated Learning Using Improved Consensus Mechanism	Ms. Geetanjali Popat Rokade, Dr. Sonali Patil	Ms. Geetanjali Popat Rokade, Dr. Sonali Patil	21/03/2025	15/07/2025	10423/2025-CO/L	LD-20250168172	Registered
17	Living Code : How Decentralized AI will Shape the Future of trust	Dr. Sonali Patil, Pratik Vilas Jagdale	Dr. Sonali Patil, Pratik Vilas Jagdale, Deepali Naik	27/04/2025	07/08/2025	LD-16974/2025-CO	LD-20250170350	Registered
18	Predicting Employee Performance using Machine Learning and Deep Learning	Dr. Reena Kharat Ms. Riya Wagh	Dr. Reena Kharat Ms. Riya Wagh Dr. Deepali Naik	22/04/2025	18/08/2025	15812/2025-CO/L	LD-20250171934	Registered

19	Federated and Self-Supervised Intrusion Detection System for Energy-Efficient Edge Devices	Paras Kacha, Dr. Swati Shinde	Paras Kacha, Dr. Swati Shinde	12/04/2025	06/08/2025	14342/2025-CO/L	LD-20250170180	Registered
20	Sentiment Analysis of Social Media Tweets Using SVM and Flask - Based Web Interface	Mahima Nair, Sarika Deokate, Nitin Pandita, Soham Ovhal, Disha Parale	Mahima Nair, Sarika Deokate, Nitin Pandita, Soham Ovhal, Disha Parale	14/04/2025	06/08/2025	14598/2025-CO/L	LD-20250170083	Registered
21	LifeTrack AI : Smart Nutrition and Fitness Recommendations from Multimodal Data	Dr. Aparna Joshi, Ankit Kumar shah, Bhaskar Prasad Sah	Dr. Aparna Joshi, Ankit Kumar shah, Bhaskar Prasad Sah	10/10/2025	02/02/2026	LD-40973/2025-CO	LD-20260181945	Filed & Registered