

## Department of Computer Science & Engineering

### **Development Activities (Patents) (2025-26 Granted)**

| S.N. | Title of the Patent                                                                | Name of Inventor                                                                           | Application number | Date of Issued | Patent authority | status  |
|------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------|----------------|------------------|---------|
| 1    | Smart IOT Gateway Device With Integrated Edge Computing Module                     | Neeraja Veeramachineni                                                                     | 478160-001         | 28/10/2025     | IP INDIA         | Granted |
| 2    | Voice Command Based Home Automation Device                                         | Dr. Jonnadula Narasimha rao                                                                | 476882-001         | 14/10/2025     | IP INDIA         | Granted |
| 3    | AI- Enabled Device For Detection of Neurological Order                             | Dr. V. Naresh Kumar                                                                        | 477430-001         | 17/10/2025     | IP INDIA         | Granted |
| 4    | AI Based Automated Guided Medical Diagnostic Robot                                 | Dr. K. Srujan Raju                                                                         | 477432-001         | 17/10/2025     | IP INDIA         | Granted |
| 5    | IOT Based Wireless Network Device for Environment Monitoring                       | Tabeen Fathima, Saba Sultana, Marri Sireesha, B P Deepak Kumar, Dr. Voruganti Naresh Kumar | 477699-001         | 22/10/2025     | IP INDIA         | Granted |
| 6    | Robot Quality Testing Device                                                       | Vamaraju Hari Hara Nadha Sai                                                               | 494856-001         | 16/03/2026     | IP INDIA         | Granted |
| 7    | Blockchain-Powered Smart Contract Platform For Legal Transactions                  | Dr K Maheswari                                                                             | 480981-001         | 20/11/2025     | IP INDIA         | Granted |
| 8    | Machine Learning-Based Device For Real-Time Telecom Customer Experience Management | Sriniketh Renikindi                                                                        | 492860-001         | 26/02/2026     | IP INDIA         | Granted |

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### Development Activities (Patents) (2025-26 Published)

| S. No | Title of Patent                                                                                                                        | Name of Inventor                                                          | Application Number  | Date of Issued    | Patent authority | Status    |
|-------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------|-------------------|------------------|-----------|
| 1     | Decentralized AI-Orchestrated Predictive Maintenance Architecture for Edge-Enabled IoT Systems Using Hierarchical Multi-Agent Learning | Dr. N. Bhaskar<br>Dr Mantesh Patil<br>L Swathi<br>J Swarnalatha           | <b>202541087299</b> | <b>17-10-2025</b> | IP INDIA         | Published |
| 2     | An Adaptive Neural Network Framework For Dynamic Resource Allocation In Cloud Computing Environments And Method Thereof                | Dr K Srujan Raju<br>Dr V Naresh Kumar<br>K Rajinikanth<br>Ch Sruthi Reddy | <b>202541087290</b> | <b>17-10-2025</b> | IP INDIA         | Published |
| 3     | A System For Generating Realistic Digital Twin Simulations In Industrial Iot Systems                                                   | Dr G Madhukar<br>M Srivani                                                | <b>202541101590</b> | <b>28-11-2025</b> | IP INDIA         | Published |
| 4     | A System For Iot-Based Cognitive Framework For Precision Agriculture Using Edge Ai And Adaptive Sensing                                | M Sivajyothi<br>Dr V Naresh Kumar                                         | <b>202541101593</b> | <b>28-11-2025</b> | IP INDIA         | Published |
| 5     | Predictive Cloud Auto-Scaling Using Machine Learning Algorithms                                                                        | Dr Punyaban Patel<br>Dr J Narsimha Rao                                    | <b>202541102786</b> | <b>28-11-2025</b> | IP INDIA         | Published |
| 6     | Machine Learning-Based Intelligent Data Backup And Recovery System                                                                     | Dr K Srujan Raju<br>G Shankar                                             | <b>202541102787</b> | <b>28-11-2025</b> | IP INDIA         | Published |
| 7     | Dynamic Learning Rate Adjustment Algorithm For Training Deep Neural Networks                                                           | M Sivajyothi<br>Dr V Naresh Kumar                                         | <b>202541102789</b> | <b>28-11-2025</b> | IP INDIA         | Published |
| 8     | Method And System For Multimodal Semantic Grounding And Contextual Prompting For Real-Time Ar/Vr Interfaces                            | Dr K Srujan Raju                                                          | <b>202541104503</b> | <b>28-11-2025</b> | IP INDIA         | Published |

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|----|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------|------------|----------|-----------|
| 9  | Method And System For Self-Supervised Spatio-Temporal Representation Learning For Autonomous Systems                 | G Ashwini Kumari<br>C S Vitthal Rao                                         | 202541<br>104558      | 28-11-2025 | IP INDIA | Published |
| 10 | Method And System For Multimodal Transformer-Based Perception With Cross-Modal Retrieval And Uncertainty Calibration | M Sivajyothi<br>Dr V Naresh Kumar                                           | 202541<br>104561      | 28-11-2025 | IP INDIA | Published |
| 11 | Zero-Knowledge Blockchain Identity Verification Protocol For Privacy-Preserving Online Transactions                  | Dr. B. Kavitha Rani<br>M Nagendra Rao<br>G Krishna Kishore<br>M. Sivajyothi | 202541<br>087324      | 17-10-2025 | IP INDIA | Published |
| 12 | Context-Preserving Autonomous Workflowengine With Dynamic Goal Reformulationand Failure Recovery                     | MD. Asma T Vasavi<br>K Udaya Sree V Mounika<br>V Prema Tulasi K Anoosha     | 202641<br>012251      | 04-02-2026 | IP INDIA | Filed     |
| 13 | System And Method For Low-Power Iot Mesh Networking For Remote Environmental Monitoring And Control                  | G Pavan Kumar                                                               | 202641<br>014701<br>A | 20/02/2026 | IP INDIA | Published |
| 14 | Machine Learning-Powered Predictive Platform For Accelerating Antiviral And Anticancer Drug Discovery                | Dr K Maheswari                                                              | 202511<br>119620<br>A | 16/01/2026 | IP INDIA | Published |
| 15 | Energy-Efficient Resource Allocation Algorithm for Sustainable Cloud Computing                                       | Dr. Mahendar Adapa                                                          | 202641<br>053849<br>A | 15/05/2026 | IP INDIA | Published |

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