RUTHISH RAJ R

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EDUCATION

Dr. M.G.R. Educational and Research Institute – Chennai	**2021 - 2025**

• B Tech Information Technology   • CGPA : 8.30

Schwartz Matriculation Higher Secondary School – Ramanathapuram	**2020 - 2021**

• Higher Secondary   • Percentage: 81 %

PATENTS

SYSTEM AND METHOD FOR AUTONOMOUS AI-BASED FRESHNESS DETECTION OF AGRICULTURAL PRODUCE

Published Patent (First Inventor)

Indian Patent Application No: 202541086291

Published in The Patent Office Journal (Issue No. 40/2025) on 03 October 2025.

PROJECTS

FRESH SENSE: Revolutionizing Produce Quality Monitoring with Autonomous Drone Technology

- Conducted extensive research on drone automation and implemented AI algorithms for real-time crop monitoring and freshness detection.
- Tools: YOLOv8, OpenCV, TensorFlow, PyTorch, Pandas, Seaborn, DroneKit, Thermal Camera.
- Result: Reduced manpower usage, improved resource utilization, and enabled intelligent farm monitoring.

A Comparative Analysis of Crop Recommendation Models

- Trained and evaluated ML models using accuracy, precision, recall, and F1-score.
- Tools: Python, Pandas, Matplotlib.
- Application: Demonstrated ML-based decision support for agriculture.

SKILLS

Programming: Python, HTML, CSS, SQL

AI/ML: Machine Learning, Deep Learning

Tools: Microsoft 365

CERTIFICATIONS

- TCS ION Career Edge-Young Professional
- Introduction to Robotic Process Automation – Enlight Wisdom
- AWS and Devops – TecXpera Technologies
- NEBOSH International General Certificate in Occupational Safety and Health

TRAINING

Data Analytics Virtual MasterClass — Novitech R&D Pvt.Ltd.,

Artificial Intelligence Virtual MasterClass — Novitech R&D Pvt.Ltd.,

ACHIVEMENT

Hackathon Co-Ordinator at Dr. M.G.R. University

Won Best Innovative Project Award at Dr. M.G.R. University

Final Year Project Published as a Patent (Application No. 202541086291)

LANGUAGES

Tamil

English