Santhosh P

To obtain a challenging role in software development or machine learning where I can apply my programming expertise and project experience to develop smart, real-world solutions that create meaningful impact.

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in santhosh-p-580038282   ◯ San123-san

PRACTICAL EXPERIENCE

IIITDM Kancheepuram

Student Project Presenter   July 2025 - July 2025

Presented ISBN-published research on paddy leaf disease detection using lightweight CNN models (MobileNetV2, EfficientNet-B0). Improved performance on unbalanced datasets and optimized the model for real-time mobile deployment in agricultural applications.

Smart India Hackathon (ISRO Problem Statement ID: 1738)

Problem Solver – Cloud Data AI   Dec 2024 - Dec 2024

Developed preprocessing pipelines for INSAT satellite data using C-bound Go and multiband COGs. Improved performance, memory efficiency, and real-time rendering for cloud-optimized AI workflows. Designed an efficient COG pipeline and handled satellite data processing for real-time applications.

National Institute of Technology, Trichy

Research Intern – Reinforcement Learning   July 2024 - August 2024

Developed a Q-Learning–based model for weekly weather forecasting using real-time datasets.

EDUCATION

University College of Engineering, Anna University (BIT Campus)

Bachelor of Engineering (B.E.) – Computer Science Engineering - 8.50   Nov 2021 - May 2025

I got First Class with Distinction. Completed coursework in Generative AI, Java Programming, Cloud Computing, IoT, Ethical Hacking, Network Essentials, Extended Reality (AR/VR), and Deep Learning.

Sowdambika Higher Secondary School

Higher Secondary Certificate (HSC) – Computer Science - 91.50%   June 2020 - April 2021

S B Matric Hr Sec School

Secondary School Leaving Certificate (SSLC) - 90%   June 2018 - Apr 2019

PROJECTS

Enhanced Paddy Leaf Disease Detection using Deep Learning 🔗   Jan 2025 - May 2025

Developed a deep-learning model using CNN architectures (MobileNetV2, EfficientNet-B0) to detect paddy leaf diseases with high accuracy. Improved performance on unbalanced datasets and optimized the model for real-time deployment in agricultural applications. The project was officially published at AIEMD-2025 (ISBN: 978-93-95656-47-8).

SKILLS

Programming Languages: Python, Java, C, C++
Web Technologies: HTML, JavaScript, Streamlit
AI & Machine Learning: Deep Learning, TensorFlow, CNNs, Reinforcement Learning
Tools & Platforms:Git, GitHub, VS Code, MySQL, Oracle SQL
Frameworks: React Native, React JS
Extended Reality (XR): AR/VR, Meta Spark
Emerging Technologies:Generative AI
Cybersecurity: Basics of Cybersecurity, Ethical Hacking
Cloud & Data: COGs, Satellite Data Processing (INSAT), Data Pipelines

MILESTONES

1st Rank Holder   Anna University, Trichy

Department 2nd Rank   Anna university, Trichy

English Topper Anna university, Trichy

Smart India Hackathon 2024 – Finalist (ISRO Problem Statement 1738) Ministry of Education, Government of India

COMMUNICATION LANGUAGES

English(Fluent), Tamil(Native), Hindi(Basics)