

# PERURI TEJA SAI SATHWIK

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## PROFILE

Self-motivated and detail-oriented software development enthusiast with strong problem-solving, analytical, and communication skills. Demonstrates a passion for AI, machine learning, and web development, with the adaptability to thrive in fast-paced, dynamic environments. Proficient in C/C++, and Python, with a solid foundation in Data Structures, Algorithms, and Object-Oriented Programming.

## EDUCATION

❖ Amrita Vishwa Vidyapeetham   Amritapuri	CGPA: 8.41
❖ XII (state board)   Narayana	93.6%   2022
❖ X(state board)   Narayana	100%   2020

## PROJECTS

### Google Landmark Detection Using Deep Learning (November 2024 )

- Developed a deep learning model to classify landmarks using the Google Landmark Detection 2021 dataset.
- Implemented and fine-tuned MobileNetV2 and DenseNet201 models using TensorFlow and Keras. Applied data augmentation and transfer learning techniques to improve model performance.
- Achieved high classification accuracy and gained hands-on experience in deep learning model training and optimization.

### Crop Yield Prediction Using Machine Learning (August 2024)

- Developed a predictive model to estimate crop yield using historical and environmental data.
- Applied Linear Regression, Decision Trees, and Gradient Boosting algorithms on preprocessed datasets. Used feature engineering to enhance accuracy.
- Achieved 92% prediction accuracy; implemented a user-friendly dashboard for visualization using Streamlit.

## SKILLS

- Programming Languages: C++, Python, C, Javascript
- Machine Learning & Deep Learning: Scikit-learn, TensorFlow, Keras
- Database Management: SQL, PostgreSQL
- Web Development: HTML, CSS
- Data Science Tools: NumPy, Pandas, Matplotlib
- Problem-Solving Skills: Strong logical thinking and algorithm design

## AREAS OF INTRESTS

- Machine learning, Deep learning
- Cloud computing
- Data Science and Big Data analytics
- Software development and automation tools
- Full Stack Development (Frontend & Backend technologies)

## CERTIFICATIONS

- AWS Cloud Computing Fundamentals (Issued on 3rd Aug 2024 by CIR Amritapuri)
- Python Foundation (Issued on 28th september 2024 by Infosys|Springboard)

## SOCIAL OUTREACH

- Career Guidance and Skill-Building Initiative
- Led a two-day SSR program at S R Digi High School, Hyderabad, for 8th to 10th-grade students, focusing on career guidance, aptitude development, and basic technical concepts like HTML, CSS, and AI through interactive sessions and assignments.