

Prasanna SA

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Career Objective

Motivated final-year software engineering student and tech enthusiast with a keen interest in AI. Experienced in building real-world projects and solving practical problems. Seeking to join a team where I can apply my skills and continue learning.

Education

Coimbatore Institute of Technology
M.Sc Integrated Software Systems

November 2021 – Present
CGPA: 7.54/10

Experience

Ramco Systems
Project Trainee

July 2024 – December 2024
Chennai, Tamilnadu

Taskcard Importer – KNIME, Python, C#

- Engineered a KNIME-based aviation task-card pipeline automating 8 validation checks and generating PDF reports—cutting manual processing time by 85%.
- Scheduled daily ETL jobs via KNIME Server, providing 24/7 data freshness and improving on-time report delivery by 40%.

PDF Generator – XML to PDF using XSL-FO

- Implemented an XSLT→XSL-FO to Apache FOP PDF generator, producing 50 daily documents and eliminating a manual formatting team.
- Ensured accurate layout rendering and automated PDF creation by integrating schema-driven XML and reusable XSL templates.

Technical Skills

Programming languages: C++, Python, SQL

Web Technology: HTML, CSS, JavaScript, TypeScript, Angular, ReactJS, Bootstrap, Node.Js, ExpressJs

Databases: MySQL, MongoDB, SQL Server

Tools: Blender, Git, Postman, Docker

Platform: Windows, MacOS, Linux

Projects

IntegriProct – Assessment Proctoring System | *Next.js, Node.js, Python, MongoDB*

- Developed a robust exam proctoring system with rule-based features including tab switch detection, webcam recording, and copy-paste monitoring.
- Designed a live dashboard for teachers with real-time activity tracking, alerts, and webcam/screen monitoring to ensure test integrity.
- Implemented test resumability and post-exam analytics to calculate cheating probability scores and generate detailed integrity reports.

AgroSense – IoT | *ESP32, Python (Flask, Sklearn), ThingSpeak, Sensors, React.js*

- Integrated a real-time IoT solution integrating environmental sensors and ML models to recommend ideal crops with over 90% accuracy.
- Streamlined sensor-to-dashboard pipeline using ESP32, Flask, and React, enabling farmers to make informed crop decisions instantly.

SnapNPlate | *Python, TensorFlow, Keras, FastAPI*

- Developed an AI-powered food image classification system using a CNN model with TensorFlow and Keras, achieving over 85% accuracy across 10 food categories through data augmentation and transfer learning.
- Integrated the optimized model with FastAPI to enable real-time image uploads and predictions, improving inference speed by 40% using a batch processing pipeline.

Certifications and Achievements

Developing Front-End Apps with React – Coursera

Python For Data Science – NPTEL

SenseAI Hackathon (2nd Runner) – Created an AI-based Exam Proctoring System in a 30-Hour Sprint.

Game of Codes(Runner) – Melenia, Coimbatore Institute of Technology