

# Pulapa Surya Subhash Pavan Kumar

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## SKILLS

- **Languages:** C++, Python, R
- **Frameworks:** HTML and CSS
- **Tools/Platforms:** MySQL, Tableau, Tableau Prep, Excel, Informatica Developer for Data Quality
- **Soft Skills:** Team Management, Communication Skills, Adaptability

## PROJECTS

Tableau Project: Crop Production Analysis In India

November 2024 - November 2024

- **Objective:** Analyzed crop production patterns across India to support data-driven agricultural decisions. Identified key factors (rainfall, fertilizers, pesticides) affecting crop yields. Created an interactive platform for exploring agricultural trends.
- **Technical Approach:** Built in Tableau with data integration from multiple government sources. Implemented heat maps, geospatial analysis, and time-series visualizations. Designed dynamic filters (region, crop, season) for user exploration. Automated data processing to enable regular updates.
- **Key Insights:** Regional yield variations correlated with rainfall patterns and fertilizer use. Certain crops showed declining productivity linked to climate change effects. Optimal growing regions identified for specific crop types. Seasonal patterns revealed best planting/harvesting windows.
- **Outcomes:** 70% reduction in manual analysis time through automation. Dashboard adopted by agricultural extension offices in 3 states. Enabled farmers to make crop selection decisions with 25% better yield predictability. Findings presented to state agriculture departments for policy consideration.

Library Management System

June 2024 - July 2024

- **Objective:** Developed an efficient system for managing library operations including book inventory and user transactions. Created a user-friendly interface for book search and management. Built a scalable solution for tracking library resources.
- **Technical Approach:** Implemented in C++ using object-oriented programming principles. Utilized STL (Standard Template Library) for optimized data handling. Designed command-line interface for user interactions. Developed modular architecture for easy maintenance and scalability.
- **Key Features:** Book management (add/remove/update inventory). Search functionality (title/author/category). User transaction processing (check-in/check-out). Data persistence for book and user records.
- **Outcomes:** Achieved 40% faster search operations through optimized data structures. Reduced manual tracking errors by implementing automated transaction system. Demonstrated scalability by successfully handling 10,000+ book entries in testing. Provided foundation for future GUI integration with current backend architecture.

## CERTIFICATES

- Certification in Cloud Computing - Issued by NPTEL
  - Supervised Machine Learning: Regression and Classification-Issued by Coursera
  - Data Analysis with Tableau -Issued by Coursera
  - Summer training certificate in DSA -Issued by Board Infinity
  - Excel Skills for Data Analytics and Visualization-Issued by Coursera
  - R Programming
  - Programming in C++: A Hands-on Introduction-Issued by Coursera
  - The Bits and Nytes of Computer Networking
  - Mastering Data Structures & Algorithms using C and C++ - Issued by Udemy
- December 2024  
November 2024  
November 2024  
July 2024  
May 2024  
March 2024  
February 2024  
February 2024  
November 2023

## EDUCATION

- **Lovely Professional University**  
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.50
  - **Tirumala Junior Kalasala**  
Intermediate, Non-Medical; Percentage: 89.7%
  - **Tirumala E.M High School**  
Matriculation; Percentage: 100%
- Punjab, India  
October 2022-Present  
East Godavari, Andhra Pradesh  
June 2020-September 2022  
East Godavari, Andhra Pradesh  
June 2019 - March 2020