# Tanmay M S

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## Summary

A 4th-semester Computer Science undergraduate passionate about software development. Actively learning and building skills in Machine Learning while strengthening fundamentals in programming and problem-solving. Experienced in working collaboratively in team settings to design, develop, and deliver impactful software projects.

## Education

**RV University**, B.Tech(H) in Computer Science                                        Sept 2023 – Present
- CGPA: 9.13/10 (First Year)

**Vidya Sanskaar PU College**, PCMC                                                             Sept 2023
- Percentage: 95.83%

**Shantidhama English School**                                                                       Sept 2021
- Percentage: 97.12%

## Projects

**Accident Detection and Alerting System For Two Wheelers**               [github.com/tanygit/ADS](github.com/tanygit/ADS)
- Developed an accident detection and alerting for scooters by detecting accidents in real-time and alerting emergency services and predefined contacts immediately
- Tools & Technologies: C++, Java, Firebase database, Android Studio

**Tower of Hanoi with GUI**                                                                 [github.com/tanygit/TOH](github.com/tanygit/TOH)
- Developed a graphical user interface (GUI) application using Java Swing to visually simulate the Tower of Hanoi puzzle. Implemented interactive features allowing users to select the number of disks and observe the solution in real time, adhering to the puzzle's rules
- Tools & Technologies: Java, swing library

**Classification of Maxillary Anterior Teeth in Periapical Radiographs**
- This project aimed to develop a machine learning model capable of categorizing maxillary anterior teeth visible in periapical radiographs into four categories: Central Right Incisor, Central Left Incisor, Lateral Right Incisor, and Lateral Left Incisor. Using a dataset annotated with COCO tools, the radiographs were labeled and processed for training a CNN model
- Tools & Technologies: YOLOv8, Matplotlib, COCO Annotator

**Crime-Investigation-and-Reporting-System**                                        [github.com/tanygit/CIRS](github.com/tanygit/CIRS)
- Designed and developed a web-based application to facilitate crime reporting and investigation. Implemented role-based access for citizens, police, and administrators, enabling secure complaint filing, tracking, and management
- Tools & Technologies: Flask, SQLite, HTML, CSS, Jinja2

**Heart Attack Data Analysis**                                                             [github.com/tanygit/HADA](github.com/tanygit/HADA)
- This is a data analysis project focused on comprehensively understanding factors influencing heart attacks. Leveraging a diverse dataset sourced from Kaggle, the project employs a systematic methodology, combining column-wise exploration, heatmap-guided quantitative analyses, geospatial mapping, and graphical representation through bar graphs
- Tools & Technologies: Python, Jupyter Notebook, Pandas, Matplotlib

## Technical Skills

**Languages:** C (Intermediate), Java (Intermediate), Python (Intermediate), SQL (Intermediate), Solidity (Basic), C++ (Basic), JavaScript (Basic)