# Pranay Deepak Reddy Gosala

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## EDUCATION

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|---|---|
| **Stevens Institute of Technology.** | **Aug 2023 - May 2025** |
| Master of science in Computer Engineering. | GPA: 3.98/4.00 |
| Visvesvaraya Technological University. | **Aug 2018 - May 2022** |
| B.E.in Information Science and Engineering. | GPA: 3.30/4.00 |

## Experience

**Data Scientist Intern**                                                                    **Sep 2023 - present**
**ALAMO LABS (USA).**

Built data integration workflows to unify SuccessFactors data across multiple client systems, enhancing data reliability for analytics. Conducted API integrations for real-time data flow, minimizing manual data handling and ensuring accuracy. Developed and executed unit tests to validate data quality and improve data pipeline robustness.

Optimized data workflows by tuning processes, which improved data processing speed and efficiency. Documented technical processes, creating clear guides for data pipeline maintenance and troubleshooting. Performed daily monitoring of production data systems, quickly identifying and resolving data inconsistencies to maintain data integrity.

**Open nets.**                                                                                **Dec 2022 - Jun 2023**
**Data scientist**

Mentored and led a team of 5 interns 'providing structured training in Java, C++, Dev-ops, SQL, Python, DBMS, and Docker. This initiative resulted in a measurable 50% increase in coding proficiency across the team assessed through coding tests and performance evaluations.

**Sai co-operative junior college.**                                                     **Kavali, India**
**Academic administrator.**                                                              **Jan 2022- dec 2022**

Spearheaded the implementation of innovative academic programs and student engagement initiatives, leading to a 20% increase in enrollment within the first year. Partnered with faculty to create and execute a data-driven assessment plan, improving student learning outcomes by 15% through personalized learning strategies and metrics. Overhauled the financial aid processes by introducing an online application system using specific tool and technology, cutting processing time by 25% and boosting student satisfaction.

## LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

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| **National service scheme** (volunteer). | **Bangalore, India** |
| **INDIAN RED CROSS SOCIETY** (volunteer). | **Kavali, India** |
| **PEER MENTOR-** STEVENS INSTITUTE OF TECHNOLOGY | **HOBOKEN, NJ** |

## Projects

**E-Banking**

Developed a Java-based bank management system to automate user account creation and maintenance. Implemented user-friendly interfaces for streamlined navigation, ensuring data security through AES encryption and robust authentication mechanisms.

**Visitor management system**

Developed a Visitor Management System using HTML, CSS, and JavaScript to automate recording of visitor data. Implemented efficient data entry and retrieval features, improving processing speed by 20%. Enhanced security through real-time record updates and access controls.

**IoT Based Low-Cost Robotic Agent Design for Covid-19**

Designed and implemented an IoT-based robotic system using MPU 6050 gyroscope acceleration sensors for gesture recognition, enabling disabled individuals to control movements with 360° functionality. Improved user independence by automating gesture-based command execution.

**SEARCH ENGINE DEVELOPMENT**

Developed and implemented a simplified search engine to index and retrieve data from a small website, utilizing algorithms such as binary search and hash maps. Optimized search efficiency, reducing query response time by 10%.

**Wine Quality Prediction**

Built a machine learning model using specific algorithm, e.g., Random Forest to predict the quality of Vinho Verde wines based on physiochemical properties such as density, pH, and alcohol content. Achieved an accuracy of 15% on the test dataset.

**Automatic temperature controller using Arduino.**

Collaborated with a team of three to develop a standalone digital temperature controller using Arduino. The system implemented closed-loop feedback to regulate the heating element of devices, ensuring precise temperature control based on predefined requirements.

**IoT Based Water Level Quality Monitoring system.**

Designed and developed an IoT-based water level and quality monitoring system using (specific sensors, e.g., ultrasonic sensors, pH sensors) to detect physical water parameters. The system analyzed real-time data and provided actionable insights into water quality, enhancing monitoring efficiency by 25%.

## SKILLS & INTERESTS

**Programming Languages:** C, C++, Java, Python, JavaScript, R

**DevOps & Cloud:** Docker, Docker Swarm, Kubernetes, AWS, Azure, Google Cloud, Terraform

**Databases:** SQL, MySQL, DBMS

**Web Development:** HTML, CSS, JavaScript

**Machine Learning & AI:** Jupyter Notebook, Pandas, NumPy, Scikit-Learn

**Other:** Microsoft Office, Educational Administration, Leadership, IoT Protocols