





# Shruti Pingale

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## WORK EXPERIENCE

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- Dassault Systèmes Solutions Lab,** **Pune, Maharashtra**  
Software Engineering Associate - SolidWorks Assemblies Jun 2024 - Present
- Analyze assembly structures and implement code based on bus handling requirements, improving the efficiency and reliability of SolidWorks assemblies
  - Work extensively with C++ to handle various assemblies, ensuring optimal performance and functionality.
- Dassault Systèmes Solutions Lab,** **Pune, Maharashtra**  
R&D Intern - SolidWorks Assemblies January 2024 -July 2024
- Resolved Coverity static analysis issues by developing code fixes to prevent potential regressions
  - Refactored assembly status handling by creating a new class to correctly sequence pattern reference and assembly solve statuses, ensuring accurate status calculations without affecting existing functionality.
- Defence Research and Development Organisation (DRDO)** **Pune, Maharashtra**  
R&D Intern - AIML May 2023 -Aug 2023
- Contributed to the RUSTOM II aircraft project by developing AI and Machine Learning algorithms for advanced Structural Health Monitoring.
  - Explored and implemented cutting-edge techniques to enhance the reliability and safety of next-generation aviation systems.

## PROJECTS

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- IoT-Based-Wireless-EV-Charging-System-for-Electric-Vehicle (B-Tech Project) | [GitHub](#)** **May 2024**
- Explored and analyzed wireless EV charging technology, focusing on its impact on future transportation infrastructure and potential applications in various industries.
  - Technologies Used: **Arduino IDE, Blynk App, IoT, Wireless Charging, EV Technology**
- Employee Payroll Data Processing System | [GitHub](#)** **Feb 2024**
- Developed a C++ console application for employee payroll management, incorporating design patterns to enhance code efficiency. Integrated key features like data management, search, update, and sorting functionalities within Visual Studio, enhancing overall system performance and usability.
  - Technologies Used: **C++, Visual Studio, Design Patterns**
- Online Music Streaming Server | [GitHub](#)** **Nov 2023**
- Developed an Online Music Streamer Server, replicating the look and feel of popular music streaming platforms to enhance user experience.
  - Implemented key features like play, pause, navigation, and real-time server processing, delivering a seamless music streaming experience across desktop and web platforms.
  - Technologies Used: **HTML, CSS, JavaScript**
- Exploratory Data Analysis (EDA) on the Titanic Dataset | [GitHub](#)** **April 2023**
- Conducted a comprehensive Exploratory Data Analysis (EDA) on the Titanic dataset to identify key patterns and insights related to passenger demographics and survival rates.
  - Uncovered critical correlations, such as the influence of age, gender, and class on survival rates, and addressed missing data using imputation techniques.
  - Tools & Techniques: **Python, Pandas, NumPy, Matplotlib, Seaborn, Data Cleaning, Feature Engineering, Data Visualization**

## CERTIFICATES

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- Web Development and Designing Internship at OASIS INFOBYTE
- Industrial Summer Internship/Professional Training Program on Machine Learning
- Research Intern at Defence Research and Development Organisation (DRDO-RND)
- Data Structures and Algorithms (DSA) C++, Course from Udemy
- A1 and A2 Level German Certification from ITESKUL

RESEARCH PUBLICATIONS

Title: Synchronization of Smart Irrigation System with Minimal Wastage of Water

Journal: International Research Journal of Engineering and Technology (IRJET)

Publication Date: [08 |Aug 2021]

SKILLS

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

**Tools & Technologies:** Jupyter Notebook, Anaconda, Visual Studio, MATLAB, Google Collab, Microcontroller 8085

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

**Office & Productivity:** MS Office (Excel, Word, PowerPoint)

**Artificial Intelligence and Machine Learning**

EDUCATION

<b>PCET's PCCOE, Pune</b>	<b>2020-2024</b>
B.Tech. in Electronics and Telecommunication (Minor in Computer Science)	
• Score: 9.15 CGPA	
<b>Higher Secondary School - Amrita Junior College, Pune</b>	<b>2018-2020</b>
• Score: 90.92%	
<b>Jnana Prabhodhini Navanagar Vidyalaya, Pune</b>	<b>2017-2018</b>
• Score: 93.60%	