

# KARTHIK J

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## Education

**Bangalore Institute of Technology, Bangalore**  
2023

**Nov 2020 to May**

- Bachelors in Mechanical Engineering, 8.25 CGPA.
- Major project: Development of Industrial Pipe inspection Robot
- AICTE college activity, visited government primary school in Sampige, Turvekere district, Karnataka

**MS Ramaiah Polytechnic, Bangalore**

**Aug 2017 to June 2020**

- Associate's degree in Mechanical Engineering, 7.4 CGPA

## Professional Experience

- **Production Engineer Intern** at Incresol Engineering Solutions, Bangalore, Peenya: Process Monitoring, Quality Control, Process Improvement, Documentation, Safety Compliance, Equipment Maintenance, Collaboration, Training, Project Support. ~ From Sep 2022 to Oct 2022.

## IT Proficiency and Skills

- Python: Python, Core Python with OOPs, Advanced Python: File Handling, JSON and Encryption and Decryption using Pickle, Regular expression, Database Connection using MySQL module. Django Framework: Familiar with Jinja patterns, ORM for interaction with databases, Form fields validations and Static files.
- C-Programming: C programming Basics and Fundamentals.
- Java Programming: Java Basics and Fundamentals.
- Web Technology; HTML/ CSS/ JavaScript: HTML: Advanced proficiency in creating structured and semantic web content, including forms and multimedia elements.
- Proficient in HTML5 features and best practices. Advanced skills in styling websites with CSS, including responsive design, media queries, and cross-browser compatibility.
- Web Design: Demonstrated ability to create visually appealing and user-friendly designs by combining HTML and CSS effectively.
- Problem Solving: Utilized CSS to solve layout challenges and optimize website performance. Familiar with JavaScript, and have a strong grasp of DOM manipulation.
- Familiar with fundamental RDBMS concept, e.g., DDL, DML, DCL, TCL, DQL command statements. Trained with SQL+. And used PostgreSQL for implementing an interface between Web page and the database, leveraging Django.
- My GitHub - <https://github.com/Karthik150502>, refer for some insights of my projects!

## Achievement/s

- Major project titled “Development of Industrial Pipe Inspection Robot,” led by myself approved for the 46<sup>th</sup> KSCST SPP.
- Cleared Gate 2023, Mechanical Engineering,  
[https://drive.google.com/file/d/1tF8toveV90LFrIWmueyOChojHb\\_Wg6om/view?usp=drivelink](https://drive.google.com/file/d/1tF8toveV90LFrIWmueyOChojHb_Wg6om/view?usp=drivelink)

## Project/s

- **Development of Industrial Pipe Inspection Robot**, Major Project, Bangalore Institute of Technology, Dec 2022 – May 2023, Regular inspections and corrections are crucial for efficient and accident-free industrial operations. To address challenges in inspecting pipes, a remote-controlled robot equipped with a camera can efficiently detect cracks, corrosion, and flaws, preventing leaks. It navigates through complex pipe networks, retrieves footage, and cleans debris, enabling frequent and effective inspections in industries handling flammable fluids. Approved for the KSCST 46<sup>th</sup> series project SPP.
- **Django Projects:**
  - Customer Relationship Management using Django
  - Object Relational Mapping with PostgreSQL using Django
- **Minor HTML/CSS/JS projects:** Github: <https://github.com/Karthik150502>

## Language/s known

- Fluent in English
- Fluent in Hindi
- Fluent in Kannada
- Fluent in Tamil
- Native language: Telugu

## Other Soft Skill/s

- Proficient with Microsoft Word and PowerPoint
- Excellent communication
- Decent Emotional Quotient

## Declaration

I do hereby declare that all the details mentioned above are accurate to the best of my familiarity and confidence.

## Other Extracurricular Activities

- Prepared a book on Basics of SQL “Basic SQL with 80 example Queries”. Follow: <https://drive.google.com/drive/folders/1l34901QV88cD6EZDrmF1Avu9bfH-e5kF>