Vaishnavi Tirumala

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**PROFESSIONAL SUMMARY**

Recent Computer Science and Engineering graduate,I’m passionate about designing and developing scalable Java applications using Spring Boot, and Eager to continuously enhance my skill set, contribute to cloud-based projects leveraging AWS,

**EDUCATION**

**Bachelor Of Technology (BTech) – CSE**

**KESHAV MEMORIAL INSTITUTE OF**

**TECHNOLOGY | Hyderabad,India Nov 2020-Aug 2024**

* **GPA**:8.0 (**Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming (OOPs),Software Development Life Cycle (SDLC),Web Technologies, Mobile Application Development.)

**TECHNICAL SKILLS**

**Languages:** Python , Java(OOPs & Multithreading), SQL , JavaScript.

**Frameworks:** Springboot(Basics).

**Tools and Databases:** VScode , MySQL.

**Cloud Platforms and Deployment:** AWS (EC2,S3).

**Frontend Development:** Responsive Web Design , Bootstrap.

**Testing and Debugging:** Unit Testing , Test Automation , Integration Testing.

**Version Control:** Docker , Git , GitHub.

**Soft-Skills:** Adaptability, Communication Skills , Problem Solving skills , Analytical Skills , Self Motivated ,

Team Player.

**PROJECTS**

**1.Inventory Managment System**

* Collaborated with a team of 5 to develop a Python-based inventory management system integrating object detection AI models (YOLOv5). Conducted manual testing to validate model performance and ensure system robustness."
* **Tools: Python, YOLOV5,Roboflow,Streamlit,Git**

[Live Link](https://vaishnavi0604-inventory-start-9mkyro.streamlit.app/)

[GitHub Link](https://github.com/vaishnavi0604/inventory)

**2.Task Management**

* Designed and implemented a robust task management system using **Java** and

**Spring Boot** to enable users to create, update, and categorize tasks efficiently.

* Optimized application performance to enhance scalability and reliability.
* **Tools: Java,Spring Boot,MySQL,Git,RESTful APIs**

[GitHub Link](https://github.com/vaishnavi0604?tab=repositories)

**3.Image Encryption Using AES Algorithm**

* Implemented **AES encryption and decryption** for secure image processing, with a **32-byte security key** generated via XOR-Cipher. Implemented database schemas and queries in SQL Server.
* Maintained data integrity across enterprise applications.
* **Tools: AES Algorithm,ReactJs**

[GitHub Link](https://github.com/vaishnavi0604/Image-Encryption-Using-AES)

**CERTIFICATIONS**

**Python For Data Science NPTEL:** Learned Python core concepts and implementation in Data Science.

**Java Programming and Object-Oriented Design:** Developed problem-solving skills in Java, emphasizing OOP

and design patterns.

**ACHIEVEMENTS & EXTRACURRICULAR ACTIVITIES**

* Active member of National Servcie Scheme (NSS),which helps students to contribute to community services.
* Volunteer Akarshan Drawing club.