JAGANARUL A

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Professional Summary

AI-driven Java Developer with practical experience in designing and developing intelligent systems, including an AI-powered chatbot and fraud detection engine integrated into web platforms. Specialized in applying **NLP (Natural Language Processing)** techniques, rule-based logic, and heuristic analysis to build smart, responsive applications. Skilled in **Java, Spring Boot, RESTful APIs**, and **JSON** for robust backend development, combined with proficiency in **MySQL, JDBC, and Hibernate** for efficient data handling.

Well-versed in **HTML, CSS, JavaScript, and Thyme Leaf** for web integration of AI services. Familiar with **Git, GitHub**, and modern IDEs like **IntelliJ IDEA, Eclipse, and VS Code**. Passionate about AI technologies, currently advancing knowledge in **AI model design**, backend automation, and scalable architecture. Strong communicator with proven **problem-solving, time management, and collaboration** abilities Experience

Skills

- **Languages:** Java (Advanced), SQL (MySQL), HTML, CSS, JavaScript
- **Frameworks & Libraries:** Spring Boot, Spring Framework, Hibernate, JDBC, JPA, Thymeleaf
- **AI & Intelligent Systems:** NLP (Rule-Based Systems), Basic AI Model Design, Heuristic Analysis, JSON-based AI Response Handling
- **Backend & APIs:** RESTful API Design, JSON Data Handling, Secure API Integration
- **Tools & IDEs:** IntelliJ IDEA, Eclipse, Visual Studio Code, MySQL Workbench
- **Version Control & Collaboration:** Git (Branching, Merging), GitHub (Project Hosting & Collaboration)
- **Web Integration:** Responsive UI with Thyme leaf, HTML/CSS/JS integration with Java backend
- **Soft Skills:** Strong Communication, Analytical Thinking, Time Management, Team Collaboration
- **Current Focus:** AI-driven Java applications, Spring Boot API development, scalable backend architecture

Projects

1. AI Chatbot for Online Banking System

Technologies: *Java, JSON, NLP, Web Integration*

- Designed and implemented a rule-based, text-driven AI chatbot using Java to simulate real-time banking assistance.
- Utilized JSON for dynamic response handling and structured conversation flow.
- Applied NLP concepts to interpret user queries and deliver context-aware replies.
- Integrated the chatbot into a responsive website interface for interactive banking support.

2. Generative AI Assistant using LLaMA 3.1

Technologies: Python, LLaMA 3.1, Hugging Face Transformers, JSON, REST APIs

- Developed a generative AI assistant using Meta's **LLaMA 3.1** model for natural language response generation.
- Utilized **Hugging Face Transformers**, **Auto Tokenizer**, and **Text GenerationPipeline** for efficient model handling and inference.
- Enabled **multi-turn dialogue** with **context retention** and dynamic memory management.
- Applied advanced **prompt engineering** techniques for task-specific response control and content filtering.

3. *AI-Enhanced Personal Portfolio Website*

Technologies: HTML, CSS, JavaScript, GitHub Pages

- Developed a personal portfolio featuring a custom AI chatbot for guided user interaction.
- Implemented JavaScript-based chatbot logic to help users navigate content dynamically.
- Deployed the site using GitHub Pages with full mobile responsiveness and performance optimization.

4. *Beyond the Firewall – Demystifying Offline Device Security*

Technologies: Embedded Security, Firmware, System Design

- Analyzed and identified physical security vulnerabilities in offline systems.
- Implemented robust protection strategies like secure boot mechanisms and firmware validation.
- Enhanced system resilience through detailed risk assessment and defense architecture planning

Education

Bachelor of Engineering (Computer Science and Engineering)
Priyadarshini Engineering College, Anna University
CGPA: 8.02 | 2020 – 2024

Higher Secondary Certificate (HSC)
Universal Matriculation Higher Secondary School, Jolarpet
Percentage: 61% | 2019 – 2020

Certifications

- **SQL & Relational Databases** – IBM Developer Skills Network (July 2024)
- **Full Stack Web Development** – GUVI (September 2023)
- **Cybersecurity Fundamentals** – Udemy (December 2023)
- **Introduction to Networks** – CISCO Networking Academy
- **TCS iON Career Edge** – Communication, Presentation & Interview Skills (June 2024)
- **Java Programming Masterclass** – Udemy (june, 2025)
- **AI for Everyone** – DeepLearning.AI (Coursera) *(optional – if taken or planned)*
- **Prompt Engineering for LLMs** – DeepLearning.AI (Coursera) *(optional – highly relevant to LLaMA)*

- **Introduction to Generative AI** – Google Cloud Skills Boost *(optional – very good for GenAI roles)*

Additional Information

- Open to relocation and available for immediate joining.
- Actively expanding expertise in **Artificial Intelligence**, focusing on chatbot development, fraud detection systems, and generative AI technologies.
- Continuously upskilling in **Spring Boot** and **RESTful API** development to strengthen backend capabilities and scalable architecture design.