Vrishank Mistry

B.Tech in Computer Science & Engineering
Maharashtra Institute of Technology, Pune
PRN: 1032212268

+91-8928637445
vrishankmistry50@gmail.com
github.com/vrishank-03
linkedin.com/in/vrishank-mistry

Education

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE	MIT-WPU, Pune	MIT-WPU	6.98 CGPA	2021-2026
Senior Secondary	Indian School Al Wadi Al Kabir, Oman	CBSE	82.88%	2020
Matriculation	Indian School Al Wadi Al Kabir, Oman	CBSE	92.63%	2018

Technical Skills

- **Languages:** Java, Python, JavaScript, TypeScript, SQL
- **Backend:** Spring Boot (MVC, Data JPA), Node.js, Express.js, REST APIs, JasperReports
- **Frontend:** React.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Thymeleaf
- **AI/ML:** Retrieval-Augmented Generation (RAG), Vector Embeddings, LangChain, Sentence-Transformers, Generative AI
- **Databases:** Oracle, ChromaDB (Vector), SQLite
- **Developer Tools:** Git, Docker, Maven, Postman, VS Code, Linux, Microsoft Azure

Certifications

- **Microsoft Certified: Azure Administrator Associate (AZ-104)** issued by **Microsoft**
- **Date of Completion:** 29th March 2024
- **Credential Link:** Microsoft Azure Certification Credential

Work Experience

- **Credence Analytics, Mumbai** *June 2024 - July 2025*

  Role: Backend Developer | Project/Product: MercuryFx

  – Designed and implemented a new module for **Early Delivery Contracts (EDC) in forward swap deals for SBI**, including the creation of **5+ normalized database tables and 12 RESTful API endpoints**. Developed logic to validate swap deal parameters against pre-defined limits and integrated the new EDC functionality with the existing deal utilization process.

  – Independently created the IBT application by implementing dynamic form validation, regex-based email validation, and centralized error handling. **Optimized backend communication with async/await patterns**, structured parameter preparation, and robust error handling via try-catch, **reducing backend processing time by 30%**.

  – Resolved critical bugs in the SBI application, preventing the display of Personally Identifiable Information (PII) in network requests. Implemented JSON Web Tokens (JWT) for secure data transmission, ensuring **100% compliance with RBI guidelines**.

  – Optimized the manual voucher linking process by implementing dynamic UI controls and modal dialogs. Streamlined server-side validation with efficient database queries, ensuring accurate linkage and **reducing processing errors by 23% while slashing manual verification time by over 40%**.

Projects

- **VAULT: Enterprise-Grade RAG Q&A System** *August 2025 - Present*

  Capstone Project **Github**

  – Architected a full-stack, private AI knowledge base using a Retrieval-Augmented Generation (RAG) architecture to enable conversational Q&A over user-uploaded PDF documents.

  – Built a resilient Node.js backend with a server-side document ingestion pipeline, utilizing ‘langchain‘ for intelligent text chunking and a Python script for generating vector embeddings, **capable of processing 100+ page documents**.

  – Engineered an advanced, multi-step RAG agent using the Google Gemini API for query analysis, context re-ranking from ChromaDB, and final answer synthesis, **achieving an 85% relevance score in context retrieval tests**.

  – Designed a responsive React chat interface featuring persistent conversational memory (‘localStorage‘) and an interactive PDF source viewer (‘react-pdf‘), **leading to a 50% reduction in frontend code duplication** through component reuse.

- **Monthly Flash Reporting System (MFRS)** *June 2025 - July 2025*

  Personal Project **Github**

  – Engineered a full-stack web application using Java and Spring Boot (MVC, Data JPA) to **automate the generation of over 15 monthly financial flash reports**, featuring a secure, server-side rendered frontend with Thymeleaf.

  – Designed dynamic JasperReports (.jrxml) templates **with over 20 dynamic fields** to generate complex PDFs from an Oracle database, and managed the application’s build and deployment lifecycle with Maven as a WAR file.