AAYANK SINGHAI

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Education

International Institute of Information Technology, Bangalore July 2025 – July 2027
M.Tech in Computer Science and Engineering

Symbiosis University of Applied Sciences, Indore July 2018 – July 2022
B.Tech in Computer Science and Information Technology 3.85 CGPA

Experience

Avizva Solutions Indore, India
Development Engineer March 2024 – September 2024
- Designed, developed, and maintained high-quality backend services for the BrokerEx Quoting application, improving quote generation efficiency.
- Optimized large-scale data retrieval with Elasticsearch, achieving a 20% reduction in average response time.
- Designed **NoSQL MongoDB** data storage to handle large employer datasets, ensuring scalability and cloud-readiness.
- Ensured complete industry-standard compliance through detailed collaboration with cross-functional engineering teams.

Avizva Solutions Indore, India
Associate Development Engineer February 2023 – March 2024
- Led development of a **large-scale, distributed** insurance webapp, delivering secure services to more than 25M+ users.
- Integrated ElasticSearch into core APIs, achieving over **50%** reduction in data query response latency and time.
- Migrated monolithic services to **microservices-based HTTP applications**, improving scalability and reliability.
- Enhanced data retrieval using advanced search features, improving processing efficiency by more than 40%.

Avizva Solutions Gurugram, India
Trainee Development Engineer August 2022 – February 2023
- Built business rules using Drools workflow engine, automating data validation and transformation.
- Reduced data errors by 20% through accurate implementation of both **pre-rule** and **post-rule** data processing flows.
- Collaborated with stakeholders to align business logic, ensuring the precision and effectiveness of implemented rules.
- Conducted extensive testing using Postman to validate rule accuracy, ensuring robustness and system stability.

Projects

Web Application of Parichai Sammelan (Matrimonial Meet) | *Java, Spring Boot*
- Developed a microservices-based web application for bio-data creation and paid form submission management.
- Reduced HTML rendering time using **Thymeleaf** templates, achieving faster and more efficient page generation.
- Implemented PDF generation using iText and integrated secure payment gateway with Razorpay API.

E-Commerce Customer Segmentation | *Python, Pandas, NumPy, Scikit-learn*
- Built customer segmentation models using K-Means clustering, achieving 98% classification accuracy.
- Applied **RFM** (Recency, Frequency, Monetary) analysis to quantify behaviors and categorize customer profiles

Technical Skills

Languages: Java, C, SQL
Database Systems: PostgreSQL, MySQL, MongoDB
Technologies/Frameworks: Spring Boot, JPA, REST API, Microservices, JUnit, Elasticsearch, CI/CD (Jenkins), AWS, Git, Agile, Postman, WordPress

Achievements

Pro Marvel Award – AVIZVA June 2024
- Recognized for delivering high-quality code, owning critical backend modules, and excelling in project execution.

Academic Program Topper Award (Batch 2022) November 2022
- Awarded for achieving the highest CGPA in the Computer Science and Engineering department (2018–2022 batch)