

Ashutosh Kumar

Research Scholar @ NIT Jamshedpur

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PROFESSIONAL SUMMARY

I am a research scholar working in **MRI image analysis**, with a focus on applying computational and **machine learning** techniques to improve image interpretation and diagnostic accuracy. My research aims to enhance the reliability and efficiency of **medical imaging workflows**. Ex-Software Engineer with 3.5+ years of experience in building **enterprise applications** and **real-time analytics dashboards** using **Spring Boot** and **Microservices**. Proficient in **AWS, GCP, SQL**, and **Kafka** for scalable solutions and optimizing **analytics applications** and pipelines. Proven track record of **leading** successful projects, skilled in **real-time dashboards**.

EDUCATION

PhD (Doctor of Philosophy) (2025 - Present)

National Institute of Technology, Jamshedpur

Master of Science - Computer Applications (2019 - 2021)

Symbiosis International (Deemed) University, Pune
CGPA: 9.43, Gold Medalist

Bachelor of Computer Applications (2016 - 2019)

Symbiosis International (Deemed) University, Pune
CGPA: 9.20, Gold Medalist

EXPERIENCE

Associate Technical Lead - BluePi Consulting Pvt. Ltd.

Jan 2024 - Jun 2025

- Spearheaded legacy application migration from **Oracle** and on-prem **servers** to **Cloud** utilizing **Spring Boot** and **RDS** from **AWS**.
- Designed & Developed an **ecosystem** to monitor **post trade** activities for participating organizations improved **resolution time** by **30%**.
- Engaged with customers for requirements gathering, managed multiple **environments**, and resolved issues promptly, **optimizing** their **application** processing to run in **80% less time**.
- Managed 5+ **micro-services** while leading a **team** of 3 members.
- Developed & Designed a **real-time pricing engine** for efficient talent utilization in an organisation.

Senior Engineer - BluePi Consulting Pvt. Ltd.

Jan 2023 - Jan 2024

- Led the development of a **real-time dashboard** for India's **Largest Foodservice Company** with implementation of **Microservices** based **architecture** leveraging **AWS** services and **Spring Gateway**.
- Led the entire **project lifecycle**, starting from **discovery**, **high-level design** to **low-level design** & created low level design documents.
- Leveraged **SQL** and **JPA** for data extraction, **Spring Boot** for **APIs** and engaged with customers to understand requirements.
- Developed a **Spring Microservice Ecosystem** to deliver key **KPIs**, average delivery time, and performance of sales in real-time, enhancing customer's experience and **business decisions**.
- Designed and implemented **scalable information post feed** solution on **GCP** with **Spring** and **Spring Boot** for an initiative by **Government of India** for **Mobile Privacy** and **Security Issues** of Indian citizens.
- Led the implementation of **Feeder & Webhook pipeline** to build real time interaction between services using **Google Cloud Platform**
- Single-handedly implemented **PostgreSQL Vector Search** pipeline for real-time search for large scale information.

Application Development Engineer - BluePi Consulting Pvt. Ltd

Nov 2021 - Jan 2023

- Led the development of the **CDP + CMT SaaS**, delivering real-time **personalized** interventions and effective **campaign** management.
- Played a key role in **brainstorming**, designing the **architecture**, and creating technical requirement documents for the project.
- Developed and integrated a pub/sub model to send campaign **notifications** via **WhatsApp** using a third-party service API.
- Developed **CMT** using **RabbitMQ**, **AWS**, **Spring Boot** to design campaigns to track user journeys in near real-time (**under 5 seconds**). i.e. **performance optimization** of **50%** and deliver **personalized** interventions based on **segments** and **triggers**.
- Implemented a dynamic environment capable of ingesting **clickstream data** in any format and delivering dynamic **interventions**.
- Utilized **AWS** services such as **EC2**, **EMR**, **Kinesis**, **RDS**, **Redis**, **SNS**, **SQS**, **Cloudfront**, and **S3** to build and deploy the product.

Product Development Intern - iMarkserv

Nov 2020 - May 2021

- Implemented **Regex** based text parsing module and reduced input **process** running time of the **product** by **40%**.
- Designed and implemented **image processing features** of the **reconciliation** product using **OpenCV** using both **Java** and **Python**.
- Delivered an end to end **reconciliation** project developed using **SVN**, **Java & Tomcat** receiving an **accuracy** greater than **90%**.

SKILLS AND TECHNOLOGIES

- **Programming Languages** - Java, Python, C, SQL, JavaScript
- **Technologies/Frameworks** - Spring Boot, Spring Security, Apache Kafka, RabbitMQ, Linux, Redis, WebSocket, Webhooks, Django
- **Databases and Tools** - PostgreSQL, Oracle, MySQL, Github, Jira, Confluence, IDEA, VSCode, PyCharm, PgAdmin, Dbeaver
- **Cloud Services** - AWS, GCP

CERTIFICATIONS AND ACHIEVEMENTS

- **AWS** Developer Associate [\[link\]](#)
- **GCP** Architecting with Google Compute Engine Specialization [\[link\]](#)
- **IEEE** Student Branch of the year 2019, India [\[link\]](#)
- **IEEE** Student Chair of the year 2019, Pune Section [\[link\]](#)