

Raj Shekhar Singh

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EDUCATION

PES University

Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering

2021 – 2025

EXPERIENCE

Infosys Limited

Jun 2025 – Sep 2025

Specialist Programmer Level 1

Mysuru, India

- Architected and optimized ETL pipelines on Azure Data Lake Storage Gen2 using Apache Spark and Kafka, achieving 35 percent lower latency and 40 percent higher throughput.
- Optimized Spark- and Kafka-based real-time data processing, cutting latency by over one-third while boosting throughput.
- Configured scalable data workflows integrating MongoDB NoSQL Database, MySQL Relational Database, and other NoSQL systems, reducing query latency by 40 percent.
- Implemented Generative Artificial Intelligence (AI) models for analytics automation, cutting reporting time by 30 percent.
- Collaborated with Agile Scrum teams with Continuous Integration / Continuous Deployment (CI/CD) pipelines, accelerating deployment cycles by 25 percent.

Code Clause

Jun 2023 – Aug 2023

Data Science Intern

Remote

- Analyzed Flipkart sales data of over 1 million records using Python programming language and Python Pandas library, uncovering trends that increased marketing ROI by 15 percent.
- Automated Key Performance Indicator (KPI) dashboards using Python programming language, reducing report generation time by 40 percent and improving executive decision-making speed.

PROJECTS

E-Commerce Web Application | Spring Boot, React.js, MySQL, REST API, JWT Authentication

- Developed and deployed a full-stack e-commerce platform using Spring Boot MVC and React.js, featuring user authentication and a product catalog of 500+ products.
- Integrated over 25 REST APIs with JWT authentication and role-based access control, enhancing MySQL and Relational Database queries, achieving over 95 percent performance score.

Customer 360 Analytics Platform | MongoDB, Apache Spark, Apache Kafka, Azure Data Lake, Hadoop (HDFS), Hive

- Constructed an analytics platform unifying e-commerce, mobile, and Internet of Things (IoT) data from over 500,000 users for enterprise intelligence and reporting.
- Orchestrated real-time data pipelines using Kafka and Spark, reducing ingestion latency by 45 percent.
- Processed over 1 terabyte daily using Azure Data Lake, Hadoop HDFS, and Hive Data Warehouse for scalable analytics.
- Delivered dashboards with churn prediction models at 85 percent accuracy, boosting user retention by 20 percent.

Crop Monitoring System | Machine Learning (ML), Image Processing, IoT Systems

- Engineered an IoT drone system with ML models to assess crop health, improving early detection by 30 percent and reducing manual field inspections by 70 percent.

Task Manager Dashboard | Spring Boot, Django, Java, JavaScript, Bootstrap, REST API, AI Suggestions

Live Demo

- Deployed a full-stack task management application with CRUD functionality, task priority and status tracking, image handling via the Pixabay API, and an AI-powered suggestion chatbot using Hugging Face on Render.com.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, SQL, JavaScript, HTML, CSS, Shell Scripting

Backend and Frameworks: Django, Spring Boot, Spring Security, Spring MVC, REST APIs, Microservices, CI/CD, Git, GitHub Copilot

Big Data and Cloud Platforms: Apache Kafka, PySpark, Hadoop (HDFS), Hive, Pig, Azure Data Lake, ETL Pipelines

Databases: MySQL, MongoDB, NoSQL Systems, Database Design, Query Optimization, Data Modeling

Frontend and Tools: React.js, JavaScript, HTML, CSS, Bootstrap, Pandas, NumPy, Chrome Developer Tools

Artificial Intelligence / Machine Learning: TensorFlow, PyTorch, Generative-AI, Predictive Modeling

POSITIONS OF RESPONSIBILITY

Disciplinary Committee Member: Managed crowd control for over 1,500 participants at Samarpna'23 marathon event.

Field Volunteer: Supported 200+ COVID-19 patients with plasma and hospital beds through Close to My Heart NGO.

Operations Team Lead: Organized HEAL-O-CODE with over 60 teams improving club outreach by 25 percent.

ACADEMIC ACHIEVEMENTS

CyberSecurity Hackathon: Top 30 among over 400 participants at ISFCR, PES University.

HackEEE Hackathon: Won consolation prize among over 50 teams in EEE Department.