

# Vivek Kumar Mishra

Software Developer | Java Backend | Full-Stack (Fresher)

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## Profile Summary

Entry-level **Software Developer** with a strong foundation in **Java, Spring Boot, and SQL**, and hands-on experience building backend applications and RESTful APIs. Comfortable working across the software development lifecycle and adapting to different technologies within the development domain, including backend, full-stack, and application development. Experienced in database-driven systems and problem-solving, with additional exposure to machine learning through academic and project work.

## Education

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**Bachelor of Technology (B. Tech) – Computer Science & Engineering**

2021 – 2025 | CGPA: 7.43

Shri Ramswaroop Memorial College of Engineering and Management, Lucknow

**Senior Secondary (CBSE – Class XII)**

St. Xavier's Senior Secondary School, Gonda

2021

## Technical Skills

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**Languages:** Java, SQL

**Backend Technologies:** Spring Boot, Hibernate, RESTful APIs

**Databases:** MySQL

**Web Technologies:** HTML, CSS, JavaScript

**Core CS Concepts:** Data Structures & Algorithms, DBMS, Software Engineering

## Projects

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### Library Management System

Technologies: Java, Spring Boot, Hibernate, MySQL, HTML, CSS, JavaScript

- Developed a role-based Library Management System with secure authentication for Admin and User roles.
- Designed and implemented RESTful APIs for book management, issue/return workflows, and fine calculation.
- Followed layered architecture (Controller, Service, Repository) to ensure scalability and maintainability.
- Integrated MySQL database with optimized queries and entity relationships.

### Lung Cancer Detection using CNN, Vision Transformer (ViT) & Random Forest (*Final Year Project*)

Technologies: Python, Scikit-learn, Pandas, NumPy

- Designed and evaluated machine learning and deep learning models for medical image classification.
- Achieved 94% accuracy using Vision Transformer, outperforming CNN and Random Forest models.
- Implemented end-to-end data preprocessing, training, and evaluation pipelines.
- Published research findings in IEEE Xplore and an HCI-indexed journal.

## Training & Workshops

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### IBM – Data Science & Machine Learning Workshop (Jun 2024 – Aug 2024)

- Built end-to-end predictive models for stock price and car price estimation.
- Performed data preprocessing, feature engineering, and visualization using Pandas and NumPy.
- Developed and deployed a basic chatbot using IBM Watson Assistant.

## Certifications & Publications

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- **IBM Certified:** Machine Learning with Python, Data Science Basics, Chatbot Development (Watson)
  - **IEEE Xplore:** Review Paper on Lung Cancer Detection using CNN, Transformer & Random Forest
  - **HCI-Indexed Journal:** Research Paper on Comparative Analysis of Deep Learning and ML Models