

# SARVAGYA SINGHAL

+91 9407183140 | dhruvsinghal166@gmail.com | Portfolio | GitHub | Bhopal, MP, India

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## SUMMARY

B.Tech CSE student at LNCT Bhopal with experience in Java, JavaScript, React, Node.js, Express.js, MongoDB, SQL, REST APIs, and AI-powered applications using LangChain and RAG. Solved 500+ DSA problems/doubts and built full-stack projects with authentication, CRUD operations, semantic search, and PDF generation. Seeking SDE / Backend / Full-Stack internship roles.

## SKILLS

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**Languages & Tech:** Java, C++, Python, JavaScript, Node.js, Express.js, MongoDB, SQL, HTML, CSS

**AI/Tools:** LangChain, RAG (Retrieval-Augmented Generation)

**Concepts:** REST APIs, Authentication (JWT), Database Design, OOP, Data Structures & Algorithms

**Soft Skills:** Problem-Solving, Teamwork, Leadership, Time Management

**Tools:** Git, GitHub, Postman, VS Code, Docker (basic)

## PROJECTS

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### RAG-Based DSA Tutor (AI-Powered Doubt Solver)

- Engineered an AI doubt-solving system using Python, LangChain, and RAG, improving response accuracy by **30% over baseline**
- Solved **500+ DSA Doubts**

### To-Do Web Application

- Developed a full-stack application with authentication and CRUD operations
- Integrated MongoDB and optimized queries, reducing data retrieval time by **~30%**

### A Web Based Daily Expense Tracker And Receipt Generator

- Developed a web-based expense tracker with receipt generation feature, Generated Over **1000+ receipts**.
- Implemented frontend using HTML, CSS, JavaScript and PDF download functionality

## PROFESSIONAL EXPERIENCE

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### Frontend Intern | Khare Classes Dec 2025 - Present

- Developed frontend projects using React and Refine Framework
- Converted 50+ books to vector documents using Gemini & Pinecone for semantic search

## CERTIFICATIONS

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- The Web Developer Bootcamp – **Udemy, 2025**.
  - English For IT-2 – **CISCO NETWORKING ACADEMY, 2024**
  - Art of Prompting – **IBM SkillsBuild**

## ACHIEVEMENTS

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- Secured **2nd Position** in **YUVA SANKALP IDEATHON 2026**, organized by the National Service Scheme unit of **Keshav Mahavidyalaya, University of Delhi**
  - Ideation Head** at **Raahat Club**, LNCT Bhopal; contributed to planning social impact initiatives, awareness drives, and community outreach activities.

## EDUCATION

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### LAKSHMI NARAIN COLLEGE OF TECHNOLOGY

B.Tech Computer Science – “CGPA-7.28/10

Bhopal, Madhya Pradesh, India

2023 - 2027(Expected)

### GOVT. MODEL H.S SCHOOL ,SABALGARH

XII – 84.6%

Morena, Madhya Pradesh, India

2022-2023

### KIDDYS H.S SCHOOL, SABALGARH

X – 87%

Morena, Madhya Pradesh, India

2020-2021