





# Sejal Ranka

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## SUMMARY

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Computer Science undergraduate specializing in Artificial Intelligence, Machine Learning, Data Analytics, and Full-Stack Development. Experienced in building real-time systems, deploying ML models, and developing scalable MERN applications. Passionate about solving real-world problems using data-driven and AI-powered solutions.

## WORK EXPERIENCE

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### Data Analytics Intern — Gradly

Jun 2024 – Jul 2024

- Analyzed large datasets using Python and Excel, improving reporting efficiency by 30%.
- Built interactive dashboards adopted by three internal teams.
- Automated recurring reporting workflows, eliminating manual processes.

## JOB SIMULATIONS

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### Data Analytics Simulation — Deloitte (Forage)

Nov 2025

- Performed data wrangling and exploratory analysis on corporate forensic datasets.
- Identified financial irregularities and generated actionable insights.

### Quantitative Research Simulation — JPMorgan Chase (Forage)

Nov 2025

- Analyzed commodity price datasets to identify trends.
- Built quantitative models to price storage contracts using scenario-based reasoning.

## PROJECTS

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### AI-Powered Code Reviewer (MERN + Gemini AI)

- Built an intelligent code review platform providing real-time AI suggestions.
- Automated code quality checks, improving developer productivity.
- Implemented authentication, REST APIs, and live feedback dashboards.

### Fire Detection Using CCTV (Computer Vision)

- Designed a real-time fire detection system using live CCTV feeds.
- Integrated alerting pipelines and validated detection accuracy.

### SMS Spam Classifier (ML Deployment)

- Trained ML model achieving 90% accuracy in spam detection.
- Deployed using Streamlit for real-time predictions.

### AI Web App Builder (v0-Inspired Platform)

- Built an AI-powered full-stack web builder that generates production-ready applications from natural language prompts.
- Supports React, Next.js, Tailwind CSS UI generation with real-time previews.
- Enables iterative refinement, API integration, and one-click deployment workflows.

**BotByte CLI**

- Developed an AI-powered command-line tool for project scaffolding, automation, and code generation.
- Integrated LLM APIs to support intelligent documentation, code review, and workflow acceleration.
- Reduced project setup time significantly by automating boilerplate creation.

EDUCATION

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2022 – 2026	B.E. Computer Science — Sinhgad Academy of Engineering	GPA: 8.75/10
2020 – 2022	Class XII — MIT Junior College	GPA: 7.0/10
2019 – 2020	Class X — S.V. Union High School	GPA: 9.4/10

TECHNICAL SKILLS

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Programming	Python, C++, JavaScript, SQL
Web Development	MERN Stack, HTML, CSS, REST APIs
Machine Learning	Scikit-learn, NLTK, LightGBM, TensorFlow (basics)
Data Analysis	Pandas, NumPy, Excel, Dashboarding
Tools	Git/GitHub, Streamlit, VS Code, Jupyter Notebook