Ishu Agrawal

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Summary

Computer Science undergraduate with hands-on experience in building scalable backend systems and full-stack web applications. Strong foundation in Data Structures, Algorithms, and Object-Oriented Programming using Java. Experienced in developing RESTful APIs, implementing secure authentication mechanisms, and integrating AI-based features into practical applications.

Technical Skills

Programming: Java (DSA), Python, JavaScript, SQL
Backend: Node.js, Express.js, REST APIs, JWT, Passport.js
Frontend: React.js, Tailwind CSS, EJS, HTML5, CSS3
Databases: MongoDB, MySQL, Redis
AI/ML: Natural Language Processing (NLP), spaCy, Prompt Engineering
Cloud & Tools: AWS, Git, GitHub, Postman, Render, Vercel

Education

GLA University	Mathura, UP
B.Tech in Computer Science (AIML & IoT) | **CGPA: 8.47/10**	*Expected May 2027*
Vidya Devi Jindal School	Mathura, UP
Higher Secondary (Class XII) | **86.6%**	*2023*
Vidya Devi Jindal School	Mathura, UP
Class X (Secondary Education) | **95.0%**	*2021*

Technical Projects

Automated MCQ Generator using NLP and AI | **Flask, spaCy, Google Generative AI, Render**   Aug 2024
- Designed and deployed an NLP-based web application capable of generating structured exam-ready MCQs from PDFs and text inputs.
- Built a hybrid generation engine combining rule-based noun phrase extraction (spaCy) with AI-assisted question generation.
- Reduced AI API usage cost by implementing offline summarization prior to model ingestion.
- Implemented secure PDF export, answer validation, and question limit control (max 15 per session).

Full-Stack E-Commerce Platform | **Node.js, Express.js, MongoDB, Passport.js**   May 2024
- Developed a scalable multi-vendor e-commerce platform with separate user and seller modules.
- Implemented secure authentication and session-based authorization using Passport.js.
- Designed RESTful APIs following MVC architecture for maintainable backend structure.
- Structured MongoDB schemas to manage product relationships and real-time inventory updates.

Problem Solving & DSA

- Solved 500+ DSA problems across platforms including LeetCode, HackerRank, GeeksforGeeks, Codeforces,etc.
- Well-versed in core problem-solving patterns including Trees, Graphs, Recursion, Sliding Window, Greedy, and DP.
- Regular coding practice in Java with focus on writing optimized and clean solutions for interview rounds.

Certifications

- [Microsoft Certified: Azure AI Fundamentals (AI-900)](#) – Jun 2025
- API Development & Automation – Postman Student Program – Nov 2024
- [AI for India 2.0 – GUVI Geek Networks, IIT Madras Research Park](#) – Aug 2023

Achievements

- Built and deployed 3+ full-stack applications independently.
- Azure AI-900 certified on first attempt.