

Ishu Agrawal

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Summary

Results-driven **Computer Science undergraduate** specializing in **AI/ML** and **Full-Stack Development**. Expert in architecting production-ready applications with a focus on **Natural Language Processing (NLP)** and scalable backend infrastructures. Proven ability to optimize system performance and reduce operational costs by integrating intelligent AI solutions and robust database management systems.

Technical Skills

Programming Languages: Python, Java (Data Structures), JavaScript, SQL

Artificial Intelligence: Natural Language Processing (NLP), Prompt Engineering, spaCy, Google AI

Backend Development: Flask, Express.js, Node.js, RESTful API Design, Authentication (Passport.js)

Frontend & Databases: React, EJS, MongoDB

Tools & Platforms: Git, GitHub, Postman, Render, Vercel, MVC Architecture

Education

GLA University

B.Tech in Computer Science (AIML & IoT) | CGPA: 8.63/10

Mathura, UP

Expected May 2027

Vidya Devi Jindal School

Higher Secondary (Class XII) | Percentage: 86.6%

Mathura, UP

Graduated 2023

Secondary Education

Secondary School (Class X) | Percentage: 95.0%

Mathura, UP

Graduated 2021

Technical Projects

Automated MCQ Generator using NLP and AI | *Flask, spaCy, Google AI, Render*

Aug 2024

- Developed a comprehensive web-based system to automate the generation of exam-style MCQs from PDFs, text files, and Google Drive URLs.
- Engineered a **Hybrid Generation Engine** utilizing rule-based NLP (spaCy) for noun-phrase extraction and AI-assisted generation for high-order reasoning.
- Optimized API resource consumption and processing costs by implementing **offline text summarization** prior to AI model ingestion.
- Integrated advanced features including automated answer reveal, secure PDF output downloading, and question volume restriction (max 15).

Full-Stack E-Commerce Platform | *EJS, MongoDB, Express.js, Passport.js*

May 2024

- Architected a scalable multi-vendor e-commerce application featuring segregated user and seller environments.
- Implemented industry-standard security protocols for **Authentication and Authorization** using Passport.js and session management.
- Designed a high-performance inventory handling system and seller dashboard using **MVC Architecture** for maintainable code.
- Developed a structured NoSQL data schema in MongoDB to handle complex product relations and real-time inventory updates.

Certifications

- **API Development & Automation** – Postman Student Program (Nov 2024)
- **Skillcred Micro Internship** – Full-Stack Project Completion (Jul 2024)
- **AI for India 2.0** – GUVI Geek Networks, IIT Madras Research Park (Sep 2023)
- **Python Programming** – GUVI Geek Networks, IIT Madras Research Park (Aug 2023)

Declaration

I hereby declare that all the information provided above is true to the best of my knowledge and belief.