

# Ishu Agrawal

+91 8126025120 | ishuagrawal124356@gmail.com | LinkedIn: [ishu-agrawal](#) | GitHub: [Ishu6129](#)

## 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.