

AYUSHI AGRAWAL

Full-Stack Developer • Python Engineer • B.Tech CSE (pursuing)

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PROFESSIONAL SUMMARY

Results-driven Computer Science student with hands-on experience building full-stack web applications using Django REST Framework and Vanilla JavaScript. Demonstrated ability to architect and deploy production-grade systems — including JWT authentication, REST APIs, PostgreSQL databases, and real-time task collaboration tools. Recognized through industry-aligned certifications and hackathon participation. Actively seeking opportunities to apply technical skills in real-world environments.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML5, CSS3

Backend: Django, Django REST Framework, Flask, JWT Authentication, REST APIs

Frontend: Vanilla JavaScript, Responsive UI, CSS Variables, Google Fonts

ORM & Databases: Django ORM (including multi-DB routing & custom routers), MySQL, PostgreSQL, Python-SQL Integration

Data & ML: scikit-learn, D3.js, Chart.js, NumPy, Pandas, Matplotlib, Groq LLaMA (AI integration)

Tools & Platforms: Git, GitHub, VS Code, Postman, Railway, Netlify, Vercel, Kaggle

Concepts: OOP, REST API Design, Multi-DB Architecture, Data Pipelines, JWT Auth, File Handling, DSA

PROJECTS

CarbonWise — Lifecycle Vehicle Emissions Intelligence - carbonwise-ivew.onrender.com

React · Vite · Django · D3.js · Chart.js · Groq AI (LLaMA) · EPA + EEA Data Pipeline

- ▶ Built a full lifecycle CO2 comparison platform — "Google Flights for sustainable cars" — for IIT BHU EcoHackathon (Problem Statement 1)
- ▶ Engineered a data pipeline ingesting EPA fueleconomy.gov and EEA 2023 datasets to compute manufacturing, fuel, and battery-disposal emissions using ISO 14040/44 methodology
- ▶ Developed 7 REST API endpoints (Django) including lifecycle calculator, greenwashing detector with CSV claims matching, and AI chat powered by Groq LLaMA
- ▶ Built interactive frontend with D3.js breakeven chart, Chart.js bar charts, and Framer Motion animations for comparing ICE vs EV emissions across 67 grid regions
- ▶ Integrated Groq AI assistant for natural-language sustainability queries; deployable to Vercel/Railway

BestBliss — Full-Stack Luxury Hotel Platform · github.com/ayushi2577/BestBliss

Django · Django REST Framework · Django ORM · JWT · TailwindCSS · SQLite

- Designed and built a production-grade hotel management ecosystem with a custom AbstractBaseUser model (email-first auth), auto-generated branded guest IDs (BB-1001...), JWT access/refresh tokens with blacklisting on logout, and auto-generated unique referral links per guest.
- Implemented a live REST API backend powering room bookings, food ordering, dynamic loyalty programs with points redemption, and a personalised guest dashboard surfacing current bookings, today's events, and membership offers on login.
- Crafted a multi-page luxury frontend (Tailwind CSS, glassmorphism design system, dark-gold palette) that communicates with the live backend in real time — not a static brochure site, but a fully operational guest engagement platform.

EduMetrics — Smarter Teaching Starts Here - edu-metrics-five.vercel.app/

Django REST Framework · PostgreSQL · scikit-learn · JWT · Dual-DB Architecture

- ▶ Built an AI-powered academic advisory platform for college advisors that connects to a college's existing database (attendance, assignments, quizzes, library usage) and surfaces a weekly ranked triage list of at-risk students with plain-English explanations
- ▶ Engineered a dual-database architecture with a custom Django ORM router — reads from the college's existing DB (read-only) and writes analytics results to a separate analysis DB, ensuring zero modification of client data
- ▶ Implemented a weekly analytics engine computing per-student Effort Score (6 behavioural signals: library visits, assignment quality, attendance, plagiarism penalty) and Academic Performance Score with 3-week weighted rolling window
- ▶ Developed 8 REST API endpoints (DRF) covering weekly flagged triage, class performance, pre-midterm and pre-end-term predictions, fail-risk per subject, semester watchlists, and full DB recalibration — all with JWT authentication
- ▶ Built multi-stage semester analysis pipeline (pre-semester watchlist, weekly flagging with escalation memory and grace periods, pre-midterm and pre-end-term ML predictions) to enable proactive advisor interventions

EXPERIENCE & OPEN SOURCE

Open Source Contributor - <https://gssoc.girlscript.org/profile/96fc775e-29a2-485f-a454-076571397199>

AI Agents Track · GSSoC (GirlScript Summer of Code) 2026

May 2026 – Aug 2026

- Selected as a contributor under the AI Agents track in GSSoC 2026, one of India's largest open-source programs.
- Contributing to real-world AI agent repositories — reviewing codebases, submitting pull requests, and collaborating with maintainers on feature development and bug fixes.

CERTIFICATIONS & ACHIEVEMENTS

- ▶ Microsoft Certified: Azure Fundamentals (AZ-900) — Microsoft
- ▶ AI Mastery: Unlocking the Power of Artificial Intelligence — NEC Corporation (Oct 2025)
- ▶ AI Algorithm Development with Python — Intel (Oct 2025)
- ▶ Python Developer Certifications — SoloLearn — Infosys Springboard
- ▶ Top 20 Finalist · Praxis 2.0 Hackathon | Google Developer Group On Campus, GB Pant DSEU Campus — Recognized for innovation, technical skill & AI/ML solutions
- ▶ Top 12 Finalist · Hack It Out Hackathon | IIT BHU — Technex 2026
- ▶ Top 40 Finalist – Eco-Hackathon | IIT BHU — Technex 2026

EDUCATION

Bachelor of Technology (B.Tech) — Computer Science (pursuing – 2025-2029)

GLA University, Mathura · **SPI: 9.46 / 10 (Semester 1)**

CBSE Class 12 — Science Stream (2025)

Overall Percentage: 96%

STRENGTHS

- ▶ Strong analytical and problem-solving abilities with a focus on clean, structured code
- ▶ Ability to translate concepts into working, deployed full-stack applications
- ▶ Consistent self-learner — independently built and deployed production applications
- ▶ Good collaboration and communication skills
- ▶ Open-source contributor mindset — collaborative, code-review-ready, and comfortable working in distributed teams.

DECLARATION

I hereby declare that the above information is true to the best of my knowledge.