

# Aayush Kumar

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## EDUCATION

Year	Degree	Institute	CGPA/%
2023 – 2027	B.Tech, Computer Science Engineering	Delhi Technological University (DTU), New Delhi	8.87 CGPA
2023	12 <sup>th</sup> CBSE	Bal Bharati Public School, Pitampura, New Delhi	93.6%
2021	10 <sup>th</sup> CBSE	Bal Bharati Public School, Pitampura, New Delhi	95.6%

## INTERNSHIPS AND WORK EXPERIENCE

- **Data Science and Software Engineering Intern, Municipal Corporation of Delhi (MCD)** *July 2025 – Aug 2025*
  - **Data Science:** Led end-to-end analysis of Delhi's complete house tax dataset, leveraging ML models to detect tax evasion and flag anomalies, directly enabling 60 Lakhs+ in potential revenue recovery.
  - **Website Enhancement:** Conducted a comprehensive audit of MCD's house tax payment website, uncovering critical bugs and delivering actionable fixes, significantly improving reliability, user experience and payment success rates.
  - **Portal Development:** Architected and deployed the MACP scheme portal using Node.js, Express, Prisma, and PostgreSQL, digitizing a key process for thousands of MCD employees to improve transparency and efficiency.

## TECHNICAL SKILLS

- **Languages:** Java, C++, Python, C, HTML
- **Technical:** Machine Learning, Data Structures & Algorithms, Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), Mobile App Development
- **Libraries & Frameworks:** Flutter, PyTorch, Pandas, NumPy, Scikit-Learn, OpenCV, Gemini API, LangChain
- **Databases:** PostgreSQL, Firebase

## PROJECTS

- **Sororia** *Flutter | Gemini | Firebase | Selenium*
  - Developed a comprehensive women empowerment platform with real-time news updates, awareness of government schemes, and community forums for sharing experiences and organizing petitions.
  - Integrated safety tools including secure route planning and emergency SOS functionality for enhanced user protection.
  - Built SororAI chatbot that provides real-time guidance on legal rights, safety advice, and automated complaint drafting.
- **DocuMind** *LangChain | Gemini | Unstructured.io | ChromaDB*
  - Built an end-to-end RAG system to ingest PDFs, PPTX, and DOCX files, extract structured and unstructured data, and enable semantic search and QA.
  - Engineered document preprocessing pipeline with Unstructured.io for intelligent chunking of text, tables, and images, improving retrieval relevance.
  - Delivered context-aware answers that combine document insights like relevant images and tables with external LLM knowledge, enabling richer and more accurate responses.

## EXTRA CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **FINALISTS - Google Developer Groups on Campus:** Team *IN RAIN/BOWS* shortlisted among the top 14 teams out of 64K+ registrations; problem statement: *Bridging the Gender Gap – Empowering the Girl Child.*
- **PRE-FINALISTS - Smart India Hackathon:** Team *Hugs For Bugs* shortlisted by DTU for Smart India Hackathon 2024 (50 teams selected from 500+). Problem statement: *Glacial Lake Outburst Flood Prediction.*
- **NTSE Round 1:** Cleared National Talent Search Examination (NTSE) Round 1 in 2020.