

AKSHAT KUMAR

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EDUCATION

Bachelor of Technology in Computer Science and Biosciences, IIIT-Delhi

Aug 2023 - Aug 2027

SKILLS

Programming Languages C, C++, Python, R, Java, SQL (PostgreSQL, MySQL), JavaScript, HTML/CSS
Technical Skills/Tools Cloud Platforms (GCP, AWS, Firebase), Docker, Linux/Bash, REST APIs, NumPy, Git, Biopython, BLAST, ChEMBL, PyMOL, Figma, Canva, IntelliJ, RStudio, VSCode
Relevant Frameworks Django, DjangoREST, Flask, React, Node.js, TensorFlow (for inference), JUnit

EXPERIENCE

Web Developer | Growth Volunteer Intern

Oct 2023 – Dec 2023

Enveave [\[enveave.earth\]](https://enveave.earth)

Delhi, India

- Engineered and deployed **scalable data pipelines** for environmental project integration, **improving data transparency for 15+ partner organizations**.
- Led growth initiatives through digital campaigns and environmental research, contributing to a **3x increase in platform engagement** and expansion across **20+ sustainability collectives**.

Research Student

Sep 2023 – Nov 2023

CANCOG, Infosys Centre for AI [\[cancog\]](https://cancog.org)

Delhi, India

- Analyzed drug–target interactions across **3,000+ compounds** using **ChEMBL**, **DrugBank**, and **UniProt** to identify oncogenic pathways in breast cancer.
- Built **machine learning models using Python (Pandas, scikit-learn)** to score and rank **500+ drug–target pairs for anticancer potential**, supporting data-driven prioritization of therapeutic candidates in oncology research.

PROJECTS

Tumor Suppressor Mutation Analysis in Breast Cancer

[\[GitHub\]](#)

Investigated BRCA2 mutations in breast cancer using **COSMIC** and **UniProt** to uncover population-specific patterns and structural disruptions. Leveraged **Python (Pandas, Matplotlib)** to visualize mutation trends and correlate them with patient age and ethnicity.

TradeNexus

[\[GitHub\]](#)

Created a full-stack web application using **Flask(Python)** and **MySQL**, with **HTML/CSS** and **JavaScript** for the frontend to manage and visualize relational database operations. Integrated core DBMS features including CRUD operations and user authentication enabling smooth interaction between users and the database.

Angry Birds Game Clone

[\[GitHub\]](#)

Designed and developed an Angry Birds-inspired game in **Java** using **libGDX**. Built an interactive GUI, implemented game-saving with serialization, and optimized gameplay by advanced design principles and detailed customization.

Unix Shell

[\[GitHub\]](#)

Built a custom Unix shell in **C** with pipelining, built-in commands (cd,mkdir,history), and persistent history via POSIX shared memory and semaphores. Implemented signal handling (SIGINT) and process management (fork,execvp,wait).

CERTIFICATIONS & ACHIEVEMENTS

Winner, Samasya – IIT Mandi: First place in national-level problem-solving contest at Xpecto.

Certification in **Machine Learning Algorithms** in Python and R

Certification in **Full-Stack Web Development** | HTML, CSS, Javascript, Node, React, PostgreSQL, Web3 & DApps

Certification in **Tensorflow for Deep Learning** with Python

LANGUAGES

English: Native/Bilingual Proficiency

Hindi: Native/Bilingual Proficiency