

ARBASH HUSSAIN

[GitHub](#) | [Portfolio](#) | [LinkedIn](#) | [Hashnode](#)

SKILLS

- **Programming:** Python, Java, JavaScript, Dart, Data Structures & Algorithms (250 problems solved on [Leetcode](#))
- **Frameworks:** React, Next.js, Flutter, Django, FastAPI, Flask, PyTorch, TensorFlow, LangChain, Scikit-learn, Selenium
- **Tools:** MySQL, MongoDB, Appwrite, Firebase, Docker/Kubernetes, CI/CD, Git/GitHub, AWS
- **Others:** Linux, Postman, VS Code, Jupyter, Canva, Figma, Excalidraw, Notion, Prompt Engineering

EDUCATION

- Jaypee Institute of Information Technology, Noida (*Btech in Computer Science Engineering*) 2020 - 2024
- Mayoor School, Noida (*12th CBSE Boards - 89%*) 2006 - 2020

WORK EXPERIENCE

Data science Intern | Physics Wallah Aug 2024 - Nov 2024

- Designed an end-to-end **AutoML workflow** for non-technical users to train classification/regression models.
- Built pipeline using **Python**, **Scikit-learn**, **MLFlow**, and **Flask** with customizable upload + config options.
- Simplified ML lifecycle: ingestion → transformation → training → evaluation — all through a user-friendly interface.

Research Trainee | Jaypee Institute of Information Technology June 2023 - Aug 2023

- Conducted performance analysis of **Python** vs **Mojo** on recursive algorithms and Sudoku solvers.
- Documented strengths/limitations of Mojo for high-performance Python alternatives.

PERSONAL PROJECTS

CS-SPRINT | *React, Appwrite, Tailwind CSS, Excalidraw* [Website](#)

- Built a distraction-free platform for structured CS notes, cheatsheets, and interview prep.
- Integrated visual aids, dynamic routing, table of contents, and client-side caching for faster access.
- Delivered a frictionless experience with no logins or ads, focusing solely on quality CS learning content.

Research Assistant | *Python, CustomTkinter, LangChain* [Demo](#) | [Code](#)

- Inspired by personal need during B.Tech project work to manage and interact with research papers efficiently.
- Integrated PDF summarization and LLM chat (ChatGPT, Gemini) to enable interactive research insights.
- Implemented local file tagging and a polished GUI to streamline research workflows and document management.

Recommendation System | *Python, Django, AWS, HTML, CSS, JS* [Demo](#) | [Code](#)

- Built a unified recommender for 5,000+ movies, 114k songs, and 271k books with personalized user suggestions.
- Used **collaborative filtering** and **content-based algorithms** for **personalized recommendations**.
- Optimized song recommendations, cutting execution time and memory usage for better scalability.

Algorithm Visualizer | *Python, Pygame* [Demo](#) | [Code](#)

- **Created interactive visualizations** for **8 sorting** and **8 search algorithms** using **Pygame**.
- Leveraged interactive visual feedback to improve understanding and retention of core DSA concepts.

ADDITIONAL INFORMATION

Certifications:

- [Data Science Masters](#) - *Physics Wallah*
- [The Complete 2023 Web Development Bootcamp](#) - *Udemy*
- [The Complete Flutter Development Bootcamp with Dart](#) - *Udemy*

Achievements:

- Cleared GATE 2025 (Data Science & AI) with qualifying score
- 5 Star Python coder at HackerRank.
- Featured Article: [KNN in Machine Learning](#)