

# Akshat Agrawal

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LinkedIn

Github

Portfolio

LeetCode

## Education

### Indian Institute of Information Technology and Management, Gwalior

Bachelors of Technology in Computer Science

Nov 2022 - July 2026

CGPA 6.2

## Experience

### Tech Mahindra Intern

May – August 2025

#### Data Analyst Intern

Onsite

- Designed and developed inactive Power BI dashboards for an Abu Dhabi based aerospace client, enabling real time visibility into operational KPIs and **improving decision making efficiency by 25%**.
- Automated data transformation and cleaning pipelines using Power Query, reducing manual processing time by 35% and ensuring consistent **data accuracy across 1300+ records**.
- Implemented optimized **Star and Snowflake schema** designs, enhancing query performance **by 40%** and supporting faster data retrieval for analytics reports. Created custom DAX functions to enable advanced metrics tracking and scenario analysis, improving stakeholder **reporting quality by 30%**.
- Developed a custom multi-record selector using activity definitions, enabling selection of **100+ records** at once and reducing manual configuration time by **30%**. Enhanced modal interactions by refining communication, error handling, and action dispatching for a seamless user experience.
- Collaborated with cross-functional data and BI teams to deliver **scalable insight-driven dashboards** that improved project delivery timelines and overall client satisfaction.

## Technical Skills

**Languages:** C++, C, Java, JavaScript, Python, HTML, CSS

**Frameworks and Libraries:** Node.js, React.js, Express.js

**Data Analytics Libraries:** NumPy, Pandas, Matplotlib, Seaborn

**Databases:** MongoDB, Redis, SQL, MySQL

**Tools/Techologies:** Docker, AWS, Firebase, GitHub, Postman, Render, Power BI, Power Query, SQL, DAX

**Coursework:** Data Structures and Algorithms, Operating System, Computer Network, Database Management System

## Projects

### Messo / React, Tailwind CSS, Node.js, Express.js, Redis, MongoDB, Mongoose, JWT, Docker, Nginx

May 2024

- Built a full-stack hostel operations platform to manage menu ratings, announcements, complaints, and hostel-rep evaluations across **5+ hostels** serving **500+ students**.
- Engineered a **modular backend** with Express, Redis caching, and MongoDB to support scalable multi-hostel workflows and faster API response times.
- Implemented **secure JWT-based authentication** with role-based access control for students, managers, and hostel reps.
- Containerized the entire application using **Docker and deployed with Nginx load balancing** across **3+** backend instances, reducing deployment issues **by 30%** and improving system performance.

### File - Storage / Node.js, Express.js, MongoDB, Mongoose, JWT, bcrypt, Cloudinary

November 2023

- Designed and built an online storage platform for faster and more reliable data accessibility.
- Implemented secure user authentication and authorization using **JWT** and **bcrypt**.
- Enabled seamless file uploads supporting multiple file types up to **1 GB** using **Multer**.
- Developed media streaming capabilities with **adaptive video playback** across 4 quality levels using **m3u8 playlists**.
- Improved file upload and download efficiency by **35%** through optimized Cloudinary API usage and data-chunked streaming.

## Achievements/Leadership

- Organized events and taught underprivileged children as a **member of SGM**, collaborating with a 60-member team.
- Secured rank **1487** among **2,00,000+** participants in LeetCode Weekly Contest **428**.
- solved **300+** DSA problems across LeetCode, Code forces, and GeeksforGeeks.
- Attended **AI in Finance 2.0 – Coding to Capitalism**, gaining industry insights from leading BFSI firms.