Akshat Agrawal

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Education

Indian Institute of Information Technology and Management, Gwalior   Nov 2022 - July 2026
Bachelor of Technology in Computer Science   *CGPA 6.2*

Experience

Tech Mahindra Intern   **May – August 2025**
Data Analyst Intern   *On-site*

- Designed and developed interactive 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 1,300+ 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/Technologies: Docker, AWS, Firebase, GitHub, Postman, Render, Power BI, Power Query, 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.
- Attained **global rank of 991 among 33000+** participants in LeetCode Weekly Contest 479.
- solved **300+** DSA problems across LeetCode, Codeforces, and GeeksforGeeks.
- Attended *AI in Finance 2.0 – Coding to Capitalism*, gaining industry insights from leading BFSI firms.