

# AYUSH GUPTA

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## Education

### Abdul Kalam Technical University

Bachelor of Technology in Computer Science and Engineering

2022 – 2026

Current CGPA: 7.25/10

## Technical Skills

**Languages:** C, C++, JavaScript, Python, TypeScript  
**Frameworks:** React.js, Node.js, Express.js, Next.js, Django  
**Databases:** MongoDB, MySQL, PostgreSQL  
**Tools:** Postman, Git, GitHub, Docker, Kubernetes, AWS, Firebase  
**CS Fundamentals:** Operating Systems, DBMS, Computer Networks, Data Structures

## Experience

**Airtel** | [Link](#)

Sept 2024 - Nov 2024

- Designed and optimized responsive UI components for the **Wynk Music platform**, improving user engagement and interface consistency.
- Built scalable and reusable frontend components using **React.js, JavaScript, and Tailwind CSS** following industry best practices.
- Collaborated with product managers and designers to deliver seamless **UI/UX** across multiple devices and screen sizes.
- Implemented secure user authentication and authorization using **JWT and middleware** in backend services.

## Projects

**AgroSync** | [Link](#) | *React, Node.js, Express, MongoDB, REST APIs*

[GitHub](#)

- Developed **AgroSync**, a web platform connecting farmers, distributors, and retailers to streamline agricultural supply chain operations.
- To maximize transactions, **Stripe** was used to implement real-time pricing and inventory tracking.
- Developed with integrated REST APIs for smooth data exchange, **React, Node.js, Express, and MongoDB**.
- Role-based access control (RBAC) and **JWT authentication** were put into place to guarantee data security and limited access.
- Deployed the application using **Vercel** with environment-based configuration and secure secrets management.

**WatchTheDrop** | [Link](#) | *Next.js, TypeScript, MongoDB, Redis, BrightData*

[GitHub](#)

- Built a full-stack **price tracking platform** with intelligent scraping, price prediction models, and real-time notifications.
- Developed a robust web scraping system using BrightData proxy integration and anti-bot detection mechanisms, ensuring reliable data extraction with intelligent URL cleaning and product ID parsing.
- Implemented Redis-based rate limiting and caching, automated cron jobs for background price updates, and optimized data flow using Next.js Server Actions and MongoDB.
- Developed AI-driven price analytics including trend prediction, price drop probability calculation, and smart buying recommendations, enhancing user decision-making experience.
- Integrated email-based price drop alerts using Nodemailer SMTP service, triggering notifications only for significant price changes to reduce spam and improve relevance.

## Courses

**Learning Full Stack React** | [Certificate](#)

Infosys Springboard

- knowledgeable about state management and smooth navigation with **React Hooks, Context API, and React Router**.
- Integrated **RESTful APIs** and handled asynchronous operations using **Axios and Fetch API**.
- Created modular and reusable user interface elements to guarantee scalable and maintainable code.
- Implemented user authentication and authorization using **JWT and middleware** in backend services.

**Fundamentals of Machine Learning with scikit-learn** | [Certificate](#)

Infosys Springboard

- Learned **Pandas, Numpy, Seaborn, Matplotlib, Scikit-Learn** and more.
- Learned **Machine Learning** concepts like **Supervised Machine Learning** and **Unsupervised Learning**.

## Achievements

- Awarded the **Cadence Scholarship** for outstanding academic performance and excellence. Selected among top candidates for exceptional performance
- Solved 200+ problems across the platform majorly on **Leetcode and Geeks for Geeks**