Ushakoyala Ajay Kumar

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Education

- **PDPM IIITDM Jabalpur** — MadhyaPradesh, India
  Bachelor of Technology - Information Technology — 2022-Present
  Courses: Operating Systems, Data Structures, Design and Analysis Of Algorithms, Artificial Intelligence, Networking, DBMS

Skills Summary

- **Languages** : C, C++, Python, JavaScript, SQL
- **Frameworks & Libraries** : Django, Node.js, React, Redux Toolkit, Express.js
- **Databases** : MongoDB, PostgreSQL, MySQL
- **AWS Services** : EC2, IAM, S3, ECR
- **Tools & Version Control** : Git, Visual Studio Code
- **Operating Systems** : Linux, Windows
- **Soft Skills** : Leadership, Project Management, Technical Writing, Public Speaking, Time Management

Experience

- **Fusion - Backend Engineer** — Aug 2024 - Apr 2025
  - Developed and integrated RESTful APIs for the HR module.
  - Optimized database queries and enhanced system performance. Architected robust data models for
  - streamlined club management and activity tracking.

Projects

- **Algorithm for Minimizing Global Bank Transactions** — [Feb 2025]
  - Designed an efficient algorithm using graphs and multisets in C++ to reduce cross-border transactions. Designed a central world bank intermediary system for enhancement of banking effeiceincy. Integrated the C++ algorithm with Django backend to create a robust web application. Deployed using aws ec2 instance and used nginx and gunicorn for better server performance.

- **Real-Time Bus Booking Application(bus_buddy)** — [Aug 2024]
  - Developed a full-stack Flutter application for web, desktop, and mobile to streamline bus ticket booking for the IIITDM Jabalpur campus. Implemented real-time booking, a custom wallet coin system for cashless transactions, and user authentication, significantly improving the efficiency of campus bus services.

- **AI Virtual Keyboard** — [Nov 2024]
  - Built an accessible virtual keyboard using OpenCV for on-screen text input, offering a beneficial alternative for users with physical impairments or diverse input preferences.

- **Sepsis_app** — [Mar 2025]
  - Developed a machine learning–powered web app to predict sepsis patient survival using clinical datasets and real-time inputs. Integrated Python (Flask), trained models (Random Forest, Logistic Regression), and CSV-based patient data for accurate risk assessment.

Achievements

- **HackerRank performance** — [May 2024]
  - Achieved 5★ rating in Problem Solving on HackerRank with 448 Hackos, demonstrating strong algorithmic and logical thinking skills.
  - Solved a wide range of data structures and algorithm challenges under the Algorithms domain on HackerRank.
- **Competitive Programming Accomplishments**
  - Solved 400+ algorithmic problems across various platforms, demonstrating strong analytical skills.

Certifications

- **Learning Full Stack Development** — [June 2025]
  - Completed full stack web development course covering Node.js, Express.js, MongoDB, and NPM.
  - Gained hands-on experience in building scalable end-to-end applications using modern JavaScript stacks.

- **Full Stack AWS Application Development** — [July 2025]
  - Built secure, scalable cloud applications using AWS services like Lambda, DynamoDB, and API Gateway.
  - Gained hands-on experience integrating backend, storage, authentication, and traffic routing using AWS SDKs.