ANKIT KUMAR

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SUMMARY

Computer Science engineering student with hands-on experience developing backend systems and automation tools using Python, Java, MySQL, and REST APIs. Skilled in analyzing and debugging code, optimizing performance, and ensuring reliability through unit testing and version control. Demonstrated problem-solving, communication, and organizational skills through client-facing freelance projects and hackathon participation.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, JavaScript, HTML, CSS, React, Node
- **Databases:** MySQL, MongoDB, SQL
- **Core Computer Science Concepts:** Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks, Software Engineering, SDLC
- **AI/ML:** Machine Learning Models, Data Analytics, OpenCV, Automation Scripts
- **Tools:** Git, GitHub, Postman, VS Code, Jupyter Notebook
- **Concepts:** REST APIs, Cloud Fundamentals, Problem Solving, Version Control

PROJECTS

Accident Prediction using AI & ML

- Built a machine learning model using Python to predict road accidents based on weather, traffic, and historical data. Improved prediction accuracy by 18% through data preprocessing, feature engineering, and model optimization.
- Technologies: Python, Pandas, Scikit-learn, NumPy

Face Recognition System (Python + OpenCV)

- Developed a real-time face recognition system using OpenCV and Python with 92% accuracy. Implemented Haar Cascade classifiers and optimized image capture and detection.
- Technologies: Python, OpenCV

Banking Management System (Java + MySQL)

- Designed a console-based application to manage banking operations, including user accounts, transactions, and balance checks. Integrated secure authentication and error handling using Java OOP.
- Technologies: Java, MySQL, OOP

EXPERIENCE

Beryfy | *Freelance Backend Developer* **Present**

- Interacted with clients to understand functional needs and translate them into backend system requirements following sdlc best practices.
- Developed server-side logic, rest apis, API endpoints, and database schemas using Python, Java, and MySQL.
- Improved backend performance by optimizing SQL queries, refactoring code, and performing unit testing to ensure reliability and interoperability.
- Provided regular technical updates to clients, leveraging Git for version control and ensuring smooth delivery of backend components.

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University (AKTU) **2022 - 2026**
B.Tech, Computer Science & Engineering

- **Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, OOP, Software Engineering

CERTIFICATIONS

- Odoo Hackathon: Participation & Completion Certificate
- Udemy: Java, Python & REST API Development
- Accenture: Data Analytics Virtual Experience
- Softpro India: Python & JavaScript Workshop

EXTRA-CURRICULAR ACTIVITIES

Extra-Curricular Activities

- Active member of the college technical club, contributing to tech initiatives.
- Participated in the Odoo Hackathon with hands-on problem-solving experience.
- Engaged in multiple hackathons and innovation challenges.
- Attended workshops on cloud computing, AI, and emerging technologies.