Aman Kumar

+91-XXX-XXX-XXXX | amankumar849000@gmail.com | linkedin.com/in/eramankumar2327
Aurangabad, Bihar, India

EDUCATION

Bihar Engineering University, Patna   Patna, Bihar
Bachelor of Technology in Computer Science Engineering with Data Science   *Expected 2027*

- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Machine Learning, Web Technologies
- Focus Areas: Full-Stack Development, Data Science, and Algorithm Optimization

Bihar School Examination Board (BSEB)   Bihar
Higher Secondary Certificate (12th), Science Stream   *2023*

PROFESSIONAL EXPERIENCE

Full Stack Web Development Intern   May 2025 – June 2025
CODTECH IT SOLUTIONS   *Remote*

- Engineered responsive web applications using modern frontend frameworks and backend technologies, implementing RESTful APIs and database integration
- Collaborated with cross-functional team to deliver 3+ client projects, ensuring adherence to agile development practices and code quality standards
- Optimized application performance by 40% through code refactoring, lazy loading implementation, and efficient state management
- Designed and developed scalable database schemas and implemented authentication systems with JWT and OAuth protocols

Data Science with Python Trainee   June 2025
NIELIT (National Institute of Electronics & Information Technology)   *Patna, Bihar*

- Completed intensive training in Python for data analysis, machine learning algorithms, and statistical modeling techniques
- Implemented data visualization pipelines using Pandas, NumPy, Matplotlib, and Seaborn to extract actionable insights from complex datasets
- Developed predictive models using scikit-learn achieving 85%+ accuracy on classification tasks
- Applied data preprocessing, feature engineering, and model evaluation techniques on real-world datasets

TECHNICAL PROJECTS

E-Commerce Full Stack Platform | *React, Node.js, Express, MongoDB, Redux*   2025

- Built end-to-end e-commerce platform with user authentication, product catalog, shopping cart, and payment integration
- Implemented RESTful API architecture with JWT-based authentication handling 1000+ concurrent users
- Designed responsive UI/UX with React and Redux for state management, reducing page load time by 35%
- Integrated Stripe payment gateway and deployed application using Docker and AWS EC2

Predictive Analytics Dashboard | *Python, Flask, scikit-learn, Plotly, PostgreSQL*   2025

- Developed interactive dashboard for visualizing and predicting sales trends using machine learning algorithms
- Implemented Linear Regression, Random Forest, and XGBoost models with 88% prediction accuracy
- Created RESTful API endpoints using Flask to serve ML predictions and handle data queries
- Designed PostgreSQL database schema optimized for time-series data analysis

Algorithm Visualizer Web App | *JavaScript, HTML5, CSS3, D3.js*   2024

- Created interactive web application to visualize sorting and pathfinding algorithms with step-by-step execution
- Implemented 8+ algorithms including QuickSort, MergeSort, Dijkstra's, and A* with animated visualizations
- Optimized rendering performance using requestAnimationFrame for smooth 60fps animations

Technical Skills

Programming Languages: Python, C++, C, JavaScript, SQL, HTML5, CSS3
Frameworks & Libraries: React.js, Node.js, Express.js, Flask, Django, Redux, Bootstrap, Tailwind CSS
Data Science & ML: NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, Jupyter Notebook
Database Technologies: MongoDB, PostgreSQL, MySQL, Firebase, Redis
Developer Tools: Git, GitHub, Docker, VS Code, Postman, Linux, AWS, Vercel, Netlify
Core Competencies: Data Structures & Algorithms, Object-Oriented Programming, RESTful APIs, Responsive Design, Agile Methodologies, Version Control, Database Design

Achievements & Certifications

Solved 500+ problems across LeetCode, CodeChef, and HackerRank with focus on algorithmic problem-solving

Achieved 5-star rating in C++ and Python on HackerRank demonstrating strong programming proficiency

Completed Full Stack Web Development certification from CODTECH IT SOLUTIONS

Successfully completed Data Science with Python training program from NIELIT

Active contributor to open-source projects on GitHub with 20+ repositories