



AMAN DAS

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SUMMARY

Highly motivated B.Tech Computer Science Engineering graduate with a solid foundation in programming, database systems, and data structures & algorithms. Possesses strong problem-solving abilities and a keen interest in building efficient, scalable software solutions. Actively seeking a Software Developer role to apply technical skills, contribute to meaningful projects, and gain hands-on experience across the full software development lifecycle. Known for a proactive mindset, adaptability, and a creative approach to learning and implementing emerging technologies.

PROJECTS

Dec 2025 - Jan 2026

Youtube MP4/MP3 Downloader

Built a full-stack YouTube Downloader web application using Flask and yt-dlp, supporting high-quality MP4 video (with merged audio) and MP3 audio downloads via FFmpeg. Implemented background processing with real-time progress tracking, task-based download management, and secure cookie handling for restricted content. Designed a modern, responsive UI with live status updates, progress bars, and optimized user experience

Oct 2025 - Nov 2025

India AQI Visualization Dashboard

Developed an interactive air quality analytics dashboard using Python, Plotly Dash, and Pandas to visualize India's AQI trends (2022–2025) from a Kaggle dataset. Implemented advanced charts, heatmaps, and pre-aggregated data pipelines to create a fast, efficient visualization workflow that significantly improves load times and user interaction. Power BI-style web dashboard showcasing strong skills in data visualization.

Aug 2025 - Sep 2025

BMI Calculator

Built and deployed a responsive BMI Calculator web application using HTML, CSS, and JavaScript, implementing real-time BMI computation, Metric/Imperial unit conversion, animated SVG-based gauge visualization, and light/dark theme management. Optimized with a mobile-first, accessible UI, smooth state-driven updates, and performance-focused layout handling across screen sizes.

Dec 2024 - May 2025

TubiLearn: Predictive Analysis of Tuberculosis Using ML

Engaged with global researchers, discussing the role of AI in medical diagnostics and its impact on resource-limited settings. Developed and implemented a machine learning model for early TB detection, using XGBoost, Random Forest, and KNN. Presented research paper "TubiLearn: Predictive Analysis of Tuberculosis Using Machine Learning" at ICCECE 2025. Received Best Certificate of Presentation, recognizing contributions to AI-driven tuberculosis detection research.

Jun 2024 - Oct 2024

Nutrition Recommendation System

Building a web-based system using Flask and Pandas to provide personalized nutrient and food recommendations for various diseases from a CSV database. Designed a responsive UI and optimized data filtering to deliver targeted dietary guidance, showcasing skills in backend development and data handling.

EDUCATION

Bachelor of Technology (B.Tech), Computer Science and Engg. Narula Institute of Technology CGPA: 8.55	Oct 2021 - Jun 2025
Higher Secondary Bholananda National Vidyalaya Aggregate - 82%	Mar 2019 - Apr 2021
Matriculation D.A.V Public School Aggregate - 89%	Mar 2018 - Apr 2019

ADDITIONAL INFORMATION

- **Technical Skills:** Python & ML, Java, HTML,CSS & JavaScript, SQL, DBMS, Microsoft Office Suite, Google Colab, VS Code, GitHub.
- **Languages:** English, Bengali, Hindi.
- **Certifications:** Introduction to Cybersecurity Tools & Cyberattack, Machine Learning with Python, Interactive Programming in Python .
- **Awards/Activities:** Best Presentation Certificate for our research paper TubiLearn in ICCECE,2025, Seminar On Cybersecurity, Got goodies in Hacktoberfest, 2022&2025 .