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

Youtube MP4/MP3 Downloader **Dec 2025 - Jan 2026**

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

India AQI Visualization Dashboard **Oct 2025 - Nov 2025**

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.

BMI Calculator **Aug 2025 - Sep 2025**

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.

TubiLearn: Predictive Analysis of Tuberculosis Using ML **Dec 2024 - May 2025**

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.

Nutrition Recommendation System **Jun 2024 - Oct 2024**

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. **Oct 2021 - Jun 2025**
Narula Institute of Technology
CGPA: 8.55

Higher Secondary **Mar 2019 - Apr 2021**
Bholananda National Vidyalaya
Aggregate - 82%

Matriculation **Mar 2018 - Apr 2019**
D.A.V Public School
Aggregate - 89%

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 .