SAKSHI GUPTA

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PROFESSIONAL SUMMARY

Detail-oriented Computer Science student with a CGPA of 8.88/10, passionate about building scalable and impactful digital solutions. Experienced in developing real-world projects using modern technologies, with a strong focus on problem-solving and practical implementation. Skilled at designing efficient systems, improving performance, and creating user-centric solutions through clean and structured approaches. Seeking an entry-level opportunity to apply my skills, grow continuously, and contribute to innovative and meaningful projects.

EDUCATION

B.Tech – Computer Science & Engineering | Shobhit Institute of Engineering & Technology, Meerut Aug 2023 – Present | CGPA: 8.88/10

Intermediate (12th) – Science | Bihar School Examination Board 2023 | 87.2%

Matriculation (10th) | Bihar School Examination Board 2021 | 91%

EXPERIENCE

Data Science and AI Developer – Project-Based Learning | Meerut, UP Jan 2025 – Present

- Architected and deployed 3 end-to-end AI/ML web applications serving live users across computer vision, time series forecasting, and generative AI domains.
- Engineered LSTM-based time series models for 7-day AQI forecasting with high accuracy; reduced inference latency by 40% through systematic pipeline optimization.
- Executed complete ML pipeline: data collection, EDA, feature engineering, model training, hyperparameter tuning, evaluation, and cloud deployment.

TECHNICAL SKILLS

Data Science & ML: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, LSTM, Neural Style Transfer

Programming Languages: Python, C, C++, Java

Web & Backend Dev: HTML5, CSS3, React.js, Next.js, Tailwind CSS, FastAPI, Node.js, REST APIs

Data Analysis & BI: Power BI, MS Excel, EDA, Feature Engineering, Statistical Analysis, Data Cleaning

Databases & Tools: MySQL, MongoDB, Git, GitHub, Streamlit, Jupyter Notebook, Google Colab, Kaggle, Vercel, VS Code

AI & ML Concepts: Machine Learning, Deep Learning, Generative AI, NLP, Computer Vision, Time Series Forecasting

PROJECTS

ArtifyX – AI Style Transfer Web Application Live 2025

Python, TensorFlow, VGG-19, Neural Style Transfer, Streamlit, Cloud Deployment

- Built scalable VGG-19-based Neural Style Transfer pipeline for real-time image/video stylization; optimized inference by 40% with 100% uptime on live cloud deployment supporting concurrent users.
- Deployed full-stack application on cloud handling concurrent multi-user sessions with consistent performance and zero downtime.

AeroSense – Air Quality Monitoring and Prediction System (GitHub) 2025

Python, Scikit-learn, TensorFlow, LSTM, Pandas, Power BI, Streamlit

- Developed Random Forest & SVM models for AQI classification using 8+ environmental parameters; built LSTM model for 7-day air quality forecasting across 10+ Indian cities with low error margin.
- Created interactive Streamlit dashboard visualizing real-time AQI trends, seasonal patterns, and city-wise pollution comparisons for actionable environmental insights.

ToneCanvas – Multimodal Text-to-Art and Music Generator (GitHub) 2025

Python, PyTorch, Generative AI, FastAPI, React.js, REST APIs

- Engineered multimodal generative AI pipeline (text, image, audio) using PyTorch transformers; FastAPI + React.js integration delivering sub-2-second generation response time for live users.
- Designed scalable REST API architecture supporting concurrent requests, enabling reliable production-grade AI content generation at enterprise scale.

CERTIFICATIONS

Python for Data Science – Great Learning Academy (2024) | Data Science and Data Analytics – Coursera (2024) | Generative AI – Simplilearn (2025)

ACHIEVEMENTS

- Ranked among top-performing students with CGPA 8.88/10 across 5 consecutive semesters in B.Tech CSE, reflecting consistent academic excellence.
- Selected for Smart India Hackathon (SIH) 2025 Internal Round out of 200+ applicants, demonstrating advanced AI/ML problem-solving skills at a national level.
- Participated in HackCraft 3.0, building innovative AI/ML solutions under competitive hackathon conditions with cross-functional teams.
- Coordinated and managed operations for 100+ participants as volunteer at Smart India Hackathon (SIH) 2024, demonstrating leadership and organizational skills.
- Showcased data science and AI projects at National Science Day 2023 to an audience of faculty and industry professionals, receiving strong recognition.