

Shubham Shahni

Data Analyst | Data Science | Python Developer

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EXPERIENCE

Uttar Pradesh Power Corporation Limited (UPPCL)

June 2026 - July 2026

Data Analyst Intern | Shakti Bhawan, Lucknow

- Analyzed **100K+ MVVNL records** using Python to derive actionable operational insights.
- Cleaned and preprocessed **100K+ records** using Pandas and NumPy, handling missing values and data inconsistencies.
- Conducted EDA across **20+ operational parameters** to identify trends, anomalies, and KPIs.
- Created **15+ visualizations** using Matplotlib and Seaborn to communicate analytical findings.
- Transformed **100K+ raw power-distribution records** into clean, structured, and analysis-ready datasets, improving data quality and enabling efficient reporting and operational analysis.

PROJECTS

VidSnap AI

[Live](#) 

[GitHub](#) 

- Built and deployed an **AI-powered short-form video generation platform** that converts user-provided images and text into fully automated 1080×1920 videos with AI-generated voiceovers.
- Integrated **ElevenLabs (II Labs)** for high-quality text-to-speech, **FFmpeg** for automated video composition and media processing, and **Vercel Blob** for persistent cloud storage.
- Designed an automated processing pipeline handling image sequencing, text-to-speech generation, audio-video synchronization, video rendering, and final output delivery through a web interface.

NEWSLoom

[Live](#) 

[GitHub](#) 

- Engineered a full-stack **Flask-based news aggregation platform** integrating the NewsAPI REST API to fetch, process, filter, and display real-time news based on user-selected interests and keyword searches.
- Implemented **server-side API integration**, request handling, error management, and **Jinja2** templating to dynamically render categorized news and featured stories.
- Developed a responsive interface with dynamic search, category-based browsing, and structured presentation of live news content.

Lisa – Virtual Assistant

[GitHub](#) 

- Developed a **Python-based terminal virtual assistant** integrating the **Google Gemini API** for interactive, multi-turn AI conversations.
- Implemented **conversation context management** to maintain user prompts and AI-generated responses across multiple interactions and produce context-aware outputs
Built a **multi-model selection system** with secure API-key management using environment variables, enabling flexible Gemini model selection while keeping credentials out of source control.

EDUCATION

Samrat Ashok Rajkiya Engineering College, Mirzapur

Bachelor of Technology in Information Technology

2023 - 2027

Mirzapur, Uttar Pradesh

CGPA: 7.46/10

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Probability & Statistics

TECHNICAL SKILLS

Programming: Python, C, C++,

Data Science & ML: NumPy, Pandas, Matplotlib, Seaborn, PyTorch, Hugging Face

AI Tools: Ollama, Gemini API

Databases: MySQL

Developer Tools: Git, GitHub, Docker, VS Code

Web (Basic): HTML, CSS, JavaScript, Flask