SHOURYA SAXENA

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EDUCATION

VIT Bhopal University — Bhopal, MP
B.Tech. Computer Science and Engineering – CGPA: 8.1 — *Nov 2022 – Present*

TECHNICAL SKILLS

Python, C++, SQL, HTML/CSS, JavaScript, Scikit-learn, Pandas, NumPy, TensorFlow, Jupyter Notebook, Git, GitHub, Hugging Face

PROJECTS

Neural Network From Scratch — Python, NumPy, Jupyter — *May 2025*

- Built forward propagation, backpropagation, SGD, and cross-entropy loss entirely in NumPy without high-level ML libraries.
- Achieved 85% validation accuracy on MNIST with a 3-layer fully connected architecture.
- Modularized components (layers, activations, optimizers) for extensibility and educational reuse.
- Produced notebook visualizations of weight updates and loss convergence for pedagogical clarity.

Emotion Detection and Sentiment Analysis — Python, OpenCV, Keras, CNN — *Mar 2024 – May 2024*

- Led team of three to design and prototype a mouse-like assistive interface concept for quadriplegic users (early exploration).
- Developed real-time facial emotion recognition using OpenCV + custom CNN architecture (convolution + pooling stacks).
- Integrated Haar cascades for efficient face localization in live webcam feeds.
- Engineered pipeline: capture frame → detect face → preprocess ROI → predict emotion → overlay label in real time.

Deal Stage Stagnation Early Warning — Python, Pandas, Seaborn, scikit-learn — *Aug 2025*

- Engineered a pipeline "micro-churn" radar computing $risk_score = $ stage_age / median(stage) to surface silent stalled deals earlier than static age views.
- Automated scoring + Markdown executive report + visualizations (age distribution, risk thresholds, inactivity scatter), flagging **15** stagnant (**5** critical) deals in synthetic dataset.
- Implemented modular CLI (generate-data / run / report / plot / model) and GitHub Action for daily artifacts, enabling reproducible one-command analysis.
- Added optional logistic regression predicting 7-day stage advancement (features: stage age, inactivity); achieved **AUC 0.78** on synthetic labeled samples (baseline 0.50).

CERTIFICATIONS

NPTEL Marketing Analytics — **Certificate**

EXTRA-CURRICULAR

Marketing Lead, Rajasthan Club — Delivered 250 registrations within 48 hours via targeted multi-channel promotion; exceeded 500 total attendees and coordinated a 15-member crew.