

Sahil Khan

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Jaipur, Rajasthan, 302031

EDUCATION

Bachelor of Technology in Computer Science, Rajasthan Technical University, Jaipur 2021 - Present
Current CGPA: 8.5/10

Higher Secondary Education (Class 12), AVN School, Jaipur 2019 - 2021
Percentage: 94%

TECHNICAL SKILLS

Programming Languages: Python, SQL, C++, HTML/CSS

Data Science: Statistical Analysis, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing (NLP), Generative AI, Transformers, Large Language Models (LLMs)

Libraries & Frameworks: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, OpenCV, NLTK, Transformers

Tools & Platforms: AWS, GCP, Power BI, Tableau, Excel, Git

Soft Skills: Effective Communication, Analytical Thinking, Problem Solving, Team Collaboration, Adaptability

EXPERIENCE

Data Analyst Intern Jaipur, Rajasthan, India
Learn and Build Aug 2023 - Oct 2023

- Utilized SQL and Python to analyze e-commerce sales data, identifying trends that improved product tracking and boosted market performance by **25%**.
- Developed Power BI dashboards that streamlined reporting processes, cutting report preparation time by **30%**.
- Presented actionable insights to stakeholders, enabling strategic decision-making and operational improvements.

KEY PROJECTS

Vehicle Damage Detection & Repair Cost Estimation link: <https://lnkd.in/gQy8zDvz>

- Engineered a YOLO-based model for detecting vehicle damage, achieving **94%** precision with over **16,000** annotated images.
- Automated damage assessment, enhancing insurance claim processing speed and reducing error rates in cost estimation.
- Facilitated remote evaluations, streamlining investigation and claims resolution workflows.

Crime Section Recommender System link: <https://lnkd.in/gAzXbaNV>

- Developed a **NLP-powered** tool to suggest relevant crime sections based on user-provided descriptions.
- Leveraged text preprocessing, embeddings, and cosine similarity for accurate matching, and built a user-friendly GUI in Tkinter for streamlined access to legal information, including offense details, punishments, and classifications.

Speech Emotion Recognition Using CNN-LSTM link: <https://lnkd.in/gms5geef>

- Built a robust Speech Emotion Recognition model leveraging CNN-LSTM architecture, designed to classify emotions from audio datasets (**TESS, RAVDESS, SAVEE, CREMA-D**).
- Extracted key audio features including MFCC, chroma, mel-spectrogram, ZCR, and spectral contrast using Librosa, followed by data preprocessing, scaling, and encoding.
- Optimized performance with advanced techniques such as BatchNormalization, Dropout, and L2 regularization, achieving **87%** training accuracy and **78%** validation accuracy on the combined dataset.

House Price Prediction link: <https://lnkd.in/g-JDS2Yu>

- Performed data preprocessing, including feature engineering, handling missing values, and optimizing **81** input features.
- Built and evaluated Decision Tree, Random Forest, XGBoost, LightGBM, and CatBoost models, achieving the best RMSE of **23,271** and **R² of 0.915** with CatBoost.
- Conducted hyperparameter tuning with **3-fold cross-validation** using GridSearchCV, further optimizing model performance (Best RMSE: **23,372**).

AWARDS & RECOGNITIONS

- Achieved top ranks in **10th** and **12th**-grade exams with distinctions; recognized in local media for academic excellence.
- Participated in multiple AI and ML hackathons, developing innovative solutions under time constraints, gaining hands-on experience in rapid prototyping.