KAVERI GHOLRAKHE

Software Developer

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📍 A/P-Bhadgaon, Tal-Gadhinglaj, Dist-Kolhapur, Maharashtra 416502

SUMMARY

Detail-oriented and results-driven SQL and .NET Developer with hands-on experience in designing, developing, and optimizing robust software and database solutions. Proficient in C# and .NET for backend development, and skilled in writing complex SQL queries, stored procedures, functions, and triggers. Experienced in database design, performance tuning, and handling large datasets in SQL Server environments. Adept at integrating backend logic with UI components and ensuring application scalability and reliability.

EXPERIENCE

SQL and .NET Developer

R N Software And Consultors

📅 2025 - 2025   📍 Kolhapur

10 months experience
Developed, managed, and optimized database systems.

- 10 months of practical experience in building applications using C#, .NET, and SQL Server. Skilled in backend development, database management, and API integration. Eager to apply and expand technical expertise in a professional development environment.

EDUCATION

B-Tech in Computer Science and Engineering

KIT's College of Engineering Kolhapur

📅 2021 - 2025   📍 Kolhapur, India
CGPA-7.64

HSC

M.R.Junior College Gadhinglaj

📅 2019 - 2021   📍 Kolhapur, India
Percentage - 86.80%

SSC

Shri Kalleshwar High School Bhadgaon

📅 2018 - 2019   📍 Bhadgaon , India
Percentage - 84.60%

LANGUAGES

Marathi
Native ●●●●●

English
Advanced ●●●○○

Kannada
Advanced ●●●○○

Hindi
Proficient ●●●●○

SKILLS

| Python | SQl | PowerBi | Tableau |

| SQL Server | .Net | Blender | Unity |

| MySQL | PostgreSQL | C | C# | OOPS |

| CSS | Html |

PROJECTS

SAR Image Colorization

Developed a deep learning-based solution to colorize Synthetic Aperture Radar (SAR) images using a Pix2Pix Generative Adversarial Network (GAN) architecture implemented in PyTorch. The model utilizes a U-Net-based generator and a convolutional discriminator to learn the mapping from grayscale SAR inputs to natural-looking colorized outputs. Implemented custom encoder-decoder blocks with downsampling and upsampling layers, integrated model inference with a user-friendly Gradio web interface, and optimized image pre/post-processing for better visual quality. Successfully deployed the system to process and visualize colorized SAR data, enhancing interpretability for remote sensing applications.

Outcome:

- Successfully demonstrated the ability of a Pix2Pix GAN model to generate realistic colorized images from SAR inputs, improving the visual interpretability of radar data for analysis and decision-making. Achieved accurate translation of structural features from grayscale to color, with the system deployed via a Gradio interface for real-time, user-friendly interaction. The project highlighted the potential of deep learning in enhancing satellite and remote sensing imagery applications.

Crime Prediction and Analysis

Developed a data-driven crime prediction and analysis system using machine learning techniques to identify crime trends and forecast potential hotspots. The project involved data preprocessing, feature engineering, and applying classification and clustering algorithms (e.g., Random Forest, K-Means) on historical crime datasets. Visualized spatial and temporal crime patterns using dashboards and heatmaps to assist law enforcement and policy-making. The system aimed to enhance public safety through predictive insights and data visualization.

Outcome:

- Successfully predicted potential crime occurrences with improved accuracy using machine learning models, aiding proactive decision-making for law enforcement.
- Identified high-risk zones and time periods through clustering and pattern analysis, enabling better resource allocation.