

## B.K.N.S.CHYAVAN

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### CARRER OBJECTIVE

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### TECHNICAL SKILLS

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**PROGRAMMING LANGUAGE:** Python

**WEB TECHNOLOGIES :** HTML, CSS

**DATABASE:** SQL

### EDUCATION

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B.E.CSE - AI

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY , CHENNAI ,T.N.

CGPA - 7.0

2021-2025

### PROJECTS

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#### PROJECT 1: ViT-Driven Denoising for Improved Image Quality

- Built a Vision Transformer (ViT)-based denoising model with optimized attention mechanisms, improving image clarity on noisy datasets.
- Achieved +15% PSNR gain and higher SSIM compared to CNN-based methods, effectively preserving critical fine details and image textures..
- Developed end-to-end pipeline with Streamlit UI for real-time denoising in medical imaging, surveillance, and automation.
- Skills: Python, PyTorch, OpenCV, Transformers, Image Processing, Streamlit, PSNR/SSIM evaluation.

#### PROJECT 2: Spotify like Web Application

- Dynamic Song Listing: Implemented asynchronous JavaScript functions to dynamically fetch and display songs from server directories, enhancing user experience by providing real-time updates to the playlist without page reloads.
- Album Display with Metadata: Developed a feature to showcase albums along with cover images and metadata fetched from server-side JSON files and detailed information. Tools/Technologies Used: HTML, CSS, JavaScript, VS Code

#### PROJECT 3: CAR LOAN EMI CALCULATOR

- Built a React.js web app to calculate car loan EMIs with real-time results and amortization schedules.
- Deployed on AWS EC2 ensuring scalability, responsiveness, and secure user access.
- Improved usability with responsive UI and error handling, reducing calculation errors by ~20%.
- Skills: React.js, JavaScript, AWS EC2, Node.js, HTML, CSS, Python.

### SOFT SKILLS

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- Time management
- Patience
- Adaptability