

# Sachin Jalakoti

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## Education

### MIT College of Railway Engineering and Research

B.Tech, Computer Science and Engineering

Percentage: 71.45%

Oct. 2022 – Jun. 2025

Barshi, Maharashtra

### Swami Vivekanand Institute of Technology

Diploma, Computer Science and Engineering

Percentage: 77.77%

Aug. 2019 – Sep. 2022

Solapur, Maharashtra

## Projects

### FitBot – Health Assistant Chatbot

- Developed a Flask-based chatbot that calculates BMI and recommends personalized health plans including diet, exercise, and yoga.
- Integrated Gemini API for dynamic, illness-specific conversational responses.
- Enabled disease-specific suggestions such as calorie intake, yoga asanas, and nutritional tips.
- Deployed the chatbot with an interactive web interface to enhance user accessibility.
- Achieved modular design allowing future integration with wearable health APIs.

### Automatic Colorization of Grayscale Images

- Built a deep learning pipeline using PyTorch and CNNs to colorize grayscale images with high visual accuracy.
- Implemented both default colorization and user-guided color hints using Lab color space.
- Enhanced model by adding pre-processing techniques like CLAHE and denoising for input images.
- Created a user interface for uploading grayscale images and downloading colorized outputs.
- Evaluated output with metrics and confusion matrix to achieve over 70% accuracy.

### Western Sales Data Analysis

- Conducted in-depth data analysis using Python, SQL, and Excel on regional sales data.
- Built a Power BI dashboard with KPIs, slicers, and bar charts for monthly performance tracking.
- Visualized region-wise trends, product demand patterns, and customer preferences.
- Delivered actionable insights that supported business planning and sales forecasting.
- Improved report clarity through dynamic filtering and conditional formatting in Power BI.

### Student Performance Tracker

- Designed a full SQL-based tracking system for student marks, feedback, and attendance.
- Wrote complex queries to generate department-wise and semester-wise academic reports.
- Created views and aggregations to measure strengths, weaknesses, and student engagement.
- Integrated CSV data into a structured relational model for analysis and reporting.
- Enabled continuous improvement loops via feedback scoring and performance visualization.

## Skills

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- **Programming Languages:** Python, SQL
- **Data Analysis & Visualization:** Microsoft Excel, NumPy, Pandas, Matplotlib, Seaborn, Plotly, Power BI
- **Machine Learning:** Scikit-Learn, Deep Learning (CNNs), PyTorch
- **Frameworks:** Flask, Django

## Certifications

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- **Machine Learning and Data Science**, GeeksforGeeks *Feb. 2024 – Jul. 2024*
- **Business Analyst**, Skill Academy, Testbook *Jun. 2024 – Mar. 2025*