

# Malhar Vhatkar

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## EDUCATION

### Thapar Institute of Engineering & Technology

Bachelor of Engineering — CGPA : 7.3

Patiala, Punjab

Aug. 2022 – Present

### Saupin's School

Senior Secondary Education — Percentage: 90%

Chandigarh, UT

March, 2020

## EXPERIENCE

### Central Scientific Instruments Organization (CSIO-CSIR)

June 2024 – July 2024

Summer Intern

Chandigarh, UT

- Training in Deep Learning and Neural Networks using frameworks like TensorFlow, Keras and Pytorch.
- Developed Neural Networks like Handwritten Number Image Detection using MNIST Dataset.

## PROJECTS

### Crypto Dashboard | React, NodeJS, NextJS, MongoDB, Third-Party APIs

- Developed a crypto portfolio management platform that allows users to simulate transactions (buy/sell) and track their portfolio performance in real-time.
- Implemented search and dynamic filtering of cryptocurrencies based on name, market cap, and price. Managed to process and display data of over 1000 cryptocurrencies.
- Ensured cross-platform compatibility with responsive design, delivering a seamless experience across mobile and desktop devices.
- Processed over 1,000,000 cryptocurrency data points from third-party APIs.

### Google Gemini Clone | React.js, Node.js, MongoDB, Next.js, Google Gemini API

- Integrated the Google Gemini API to create a clone for data processing and analytics.
- Implemented full CRUD operations, enabling efficient management of user-generated data.
- Designed an intuitive, responsive interface using React.js, enhancing user interaction and ensuring smooth performance across devices.

### Diabetes Prediction Using Machine Learning | Python, Scikit-learn, SVM, React.js

- Built a Support Vector Machine (SVM) model to predict diabetes using features such as pregnancies, glucose levels, BMI, and age.
- Preprocessed the dataset by handling missing values, scaling features, and using various feature selection techniques, improving accuracy to 92.05%.
- Applied hyperparameter tuning to optimize the SVM classifier, enhancing prediction precision and recall.

## POSITIONS OF RESPONSIBILITY

### Head of Design

Aug 2022 – Present

Echoes Club, Thapar Institute of Engineering & Technology

Patiala

- Led the design and publication of 2 magazines, overseeing a team of 15+ designers and ensuring timely delivery of high-quality content.
- Directed a team of 30+ members in organizing CASCADE 2.0, an event with over 500 participants, managing logistics, design, and technical setup.
- Oversaw a team of 10 members in the development of Echoes Website (<https://echoes-tiet.in>)

## TECHNICAL SKILLS

**Languages:** C/C++, Python, SQL, JavaScript, HTML5/CSS3

**Frameworks:** React, Next.js, Node.js, Express.js, TensorFlow, Pytorch

**Databases:** MySQL, MongoDB, PostgreSQL

**Libraries:** pandas, NumPy, Matplotlib

**Developer Tools:** VS Code, PyCharm, Git