

# Nripdev Singh

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## EDUCATION

**Thapar Institute of Engineering and Technology**  
Bachelors in Electronics and Computer Engineering, GPA 7.25

Patiala, Punjab  
2020 – 2024

## EXPERIENCE

### E & I Intern

January 2024 – June 2024

UltraTech, Panipat

- Upgraded plant-wide DCS by programming PLCs, gaining in-depth understanding of DCS architecture.
- Optimized sensor systems and circuits by integrating IoT, VLSI, microcontrollers, and STA concepts.
- Led the AutoPlant project, resulting in a 25% reduction in loading time and a 15% improvement in yard efficiency through implementation of Load Cell technology and Weighbridge automation.

### Marketing Analyst Intern

July 2023 – August 2023

Corizo, Remote

- Supported the Marketing Manager and CMO by utilizing CRM skills to manage strong client relationships.
- Demonstrated proficiency in Data Analysis, Business Development, and Financial Management, leveraging these skills to support strategic decision-making and drive business growth.

## PROJECTS

### HealthFirst: Healthcare Platform | [GitHub Repository](#)

March 2023

**Tech Stack:** Python, React.js, Node.js, PHP, MySQL, HTML, CSS, Bootstrap

- Integrated a chatbot with scikit-learn for disease prediction, pandas for preprocessing, regex for text processing, and pyttsx3 for text-to-speech.
- Created a responsive frontend with React.js, using Bootstrap for design, jQuery for DOM manipulation, and HTML & CSS for styling.
- Built a Node.js and PHP backend for API development, user authentication, and data management, with MySQL for handling patient records and inventory.

### Potato Disease Detection System | [GitHub Repository](#)

June 2023

**Tech Stack:** TensorFlow, Keras, React.js, React Native, FastAPI, Docker, GCP

- Constructed a highly accurate machine learning model for potato disease classification using TensorFlow and Keras. Deployed the model as a RESTful API with TensorFlow Serving.
- Created a responsive web application with ReactJS and a cross-platform mobile app with React Native, integrating with a FastAPI backend deployed on GCP for real-time disease detection and inference.

### QueryWear: Natural Language to SQL System | [GitHub Repository](#)

July 2024

**Tech Stack:** Google PaLM, LangChain, Streamlit, Hugging Face, ChromaDB, MySQL

- Designed a natural language interface using Google PaLM and LangChain to translate user queries into SQL commands, facilitating intuitive interaction with a MySQL database.
- Improved query precision and contextual understanding by incorporating Hugging Face embeddings and ChromaDB for efficient similarity searches and few-shot learning.

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, C, C++, SQL

**Web Development:** React.js, Node.js, FastAPI, Django

**Database & DevOps:** MySQL, Git, Docker, Postman

**Data Analysis & Visualization:** Tableau, Power BI, Excel

**Data Science Stack:** PyTorch, TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib

**AI & NLP:** OpenAI, Langchain, Hugging Face Transformers

## ACHIEVEMENTS

### Ideathon Runner-Up

Standard Chartered Finance & Technology Connect, 2023

- Created an innovative blockchain-based solution that utilizes a Proof of Work system for loan pooling, effectively assisting individuals without collateral.