Het Panchal

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EDUCATION

- **Shree Swaminarayan Public School** — Gandhinagar ,Gujrat, India
  Secondary School ; 83.6% — *June 2020*
- **Shrere Swaminarayan English Higer Secondary School** — Gandhinagar ,Gujrat, India
  Higer Secondary School ; 67% — *2020 - 2022*
- **United World Institute of Technology** — Gandhinagar ,Gujrat, India
  Bachelor of Technology – Computer Science and Engineering with AIML; GPA: 7.9 — *September 2022 - June 2026*

Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

SKILLS SUMMARY

- **Languages**: Python, C++, JavaScript, SQL, JAVA, PHP,
- **Frameworks**: Scikit, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS, LAMP
- **Tools**: Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite
- **Platforms**: Linux, Web, Windows, Arduino
- **Soft Skills**: Leadership, Event Management, Time Management

EXPERIENCE

- **Uniconverge Technologies PVT.LTD** — Remote
  Student Data Analyst(Full-time) — *April 2024 - June 2024*
  - **Data Science & Machine Learning:** Applied ML techniques to real-world datasets.
  - **Model Optimization:** Improved model accuracy using feature engineering and hyperparameter tuning
  - **Project Implementation:** Built predictive models and data-driven solutions for business insights

- **Codtech IT Solutions PVT.LTD** — Remote
  Artificial Intelligence Intern (Full-time) — *April 2025 - may 2025*
  - **AIML Development:** Gained practical knowledge in designing conversational agents using Artificial Intelligence Markup Language.
  - **Chatbot Architecture:** Learned structure and flow of AIML-based chatbots including categories, patterns, and templates.
  - **Rule-Based Logic:** Understood how to create intelligent dialogues using rule-based AI methods.

PROJECTS

- **Plant Health Monitoring and Smart Irrigation System (DL, IoT, Full-Stack Web Application)** ***(Ongoing)***
  Developed an AI-driven system for monitoring plant health using Convolutional Neural Networks (CNN). Integrated IoT sensors to collect real-time environmental data, detect diseases, and optimize irrigation. Implemented a smart irrigation system that automates water supply based on soil moisture levels. Built a full-stack web application using React.js and Chart.js for real-time data visualization. Firebase was used for cloud storage and synchronization.
  Tech: Python, TensorFlow, Keras, OpenCV, IoT, Firebase, React.js, Chart.js, Arduino.
- **Fake News Detection using Machine Learning**
  Developed an ML-based system to identify and classify fake news articles. Utilized NLP techniques to analyze text credibility, applying models such as Naïve Bayes, LSTM, and TF-IDF for classification.
  Tech: Python, Scikit-learn, TensorFlow, NLTK, Flask
- **E-Bill Management System (DBMS, PHP, Web Development)**
  Developed an online billing management system that automates invoice generation and payment tracking. Integrated a relational database for secure and efficient data management.
  Tech: PHP, MySQL, HTML, CSS, JavaScript
- **Employee Payroll Management System**
  Designed a web-based payroll system to streamline salary calculations, tax deductions, and employee records. Implemented role-based access control for secure data handling.
  Tech: PHP, MySQL, Bootstrap, JavaScript
- **Loan Prediction using Machine Learning**
  Developed an ML-based system to predict loan approval likelihood based on applicant details such as income, credit history, and loan amount. Implemented various machine learning models, including Logistic Regression, Decision Trees, Random Forest, and XGBoost, to improve prediction accuracy. Used data preprocessing techniques like handling missing values, feature scaling, and encoding categorical variables.
  Tech: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Flask