

Het Panchal

Portfolio:
Github:

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EDUCATION

- 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, Bash, JAVA
- 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

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

PUBLICATIONS

HONORS AND AWARDS

VOLUNTEER EXPERIENCE