

# NIRANJ PATEL

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Los Angeles, CA

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## Education

### California State University, San Bernardino, USA

Aug 2022 - May 2024

- Master of Science in Computer Science (GPA: 3.57)
- Relevant courses: Data Structure and Algorithms, Machine Learning, Artificial Intelligence, Software Engineering

### Gujarat Technological University, India (GPA:3.62)

Aug 2017 - May 2021

- Bachelor of Engineering in Computer Engineering
- Relevant courses: Data Mining and Business intelligence, DBMS, Web Technologies, OOPS With C++, Operating Systems

## Work Experience

### MLOps Engineer at Hoosier Community Network, USA

Aug 2024 – Present

- Collaborated with the ML team to deploy and monitor ML models in a production environment using AWS SageMaker.
- Developed automated CI/CD pipelines for ML models using GitHub Actions and Jenkins to streamline the deployment process.
- Containerized applications with Docker ensuring scalability and fault tolerance.
- Implemented MLflow to track model experiments, manage models, and automate versioning during the training phase.
- Created and monitored dashboards using Prometheus and Grafana to track model performance and operational metrics.

### Software Engineer at Infiniqe, India

June 2021 – Jul 2022

- Designed 'Property Management Website' using HTML, CSS, JavaScript, Bootstrap, and PHP, boosting UI responsiveness by 80% and increasing user engagement by 60%.
- Led AJAX implementation on the website, cutting page load time and boosting average pages viewed.
- Developed admin panel for real-time content updates, reducing update time and expediting new listings.
- Implemented robust SQL database connections, optimizing CRUD operations, improving data retrieval.

### Software Developer Intern at Infiniqe, India

Aug 2020 – May 2021

- Led collaborative project management using agile methodologies, driving development cycles and enhancing project delivery efficiency.
- Participated in code reviews and debugging, leading to a 20% decrease in user-reported bugs.

## Technical Skills

- Programming Lang: Python, SQL, Bash
- Machine Learning Framework: Scikit-learn, Seaborn, PyTorch, TensorFlow, Pandas
- MLOps Tools: Docker, Kubernetes, MLFlow, DVC, Airflow
- Cloud Platforms: AWS (EC2, S3, SageMaker)
- CI/CD and Version Control: Jenkins, GitHub Actions, Git, GitHub
- Monitoring & Logging: Prometheus, Grafana
- Database: MySQL, MongoDB

## Academic Projects:

### Gemstone Data End- to-End MLOps Pipeline

**Technology:** Python, MIFlow, Airflow, DVC, GitHub Actions, Aws S3, Docker

- Designed end-to-end MLOps pipeline, automate the data ingestion, preprocessing, and model training using DVC and CI/CD.
- Deployed scalable ML models using Docker, ensuring seamless integration, version control, and real-time predictions.
- Managed the full lifecycle of the ML pipeline, from data collection to model deployment, improving efficiency and maintaining model accuracy in production.

### Stock Market Price Prediction | *Machine Learning and Natural Language Processing*

**Technology:** Python, Keres, CNN, LSTM, Random Forest, TensorFlow, PyTorch, Scikit-learn

- Established LSTM networks for stock price prediction, achieving 82% accuracy, showcasing expertise in time-series analysis for financial forecasting.
- Utilized SVM, decision trees, and neural networks to forecast stock prices and volatility, enhancing prediction model performance for informed trading decisions.
- Developed ML model exceeding accuracy, offering actionable insights for short-term investment strategies.

## Certifications:

- MLOps Foundations By ineuron