

# Pinal Gajjar

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## PROFESSIONAL EXPERIENCE

### AI/ML Engineer

Community Dreams Foundation | Remote, USA | Sep 2024 - Present

- Designed interactive Tableau dashboards to improve green contractors' decision-making efficiency by 30%
- Conducted statistical analysis on 12,000+ permit data entries, uncovering sustainability trends in jurisdiction densities
- Reduced manual effort by 40% taking an automation initiative that optimized data extraction and preprocessing
- Decreased eco-friendly construction delays by 20% by forecasting project timelines using advanced validation techniques
- Accelerated decision-making processes by 50% by developing predictive models with 85% accuracy

### Marketing and Data Analyst

Blissful7 | Ahmedabad, IN | Nov 2021 - Aug 2023

- Achieved a 59% surge in page visits through exploratory data analysis and predictive modeling, increasing page visits from 10,000 to 15,900
- Boosted conversion rates 23% by conducting in-depth data analysis, integrating marketing insights, and optimizing audience targeting through segmentation and predictive modeling
- Increased marketing campaign effectiveness by 27% through fine-tuning machine learning models
- Improving performance from a 15% success rate to 19% via hyperparameter optimization and cross-validation
- Automated report generation time by 35%, cutting down and enabling real-time insights for marketing and data-driven decision making

### Web Developer and Analyst

Modiant World | Ahmedabad, IN | Aug 2020 - Sep 2021

- Enhanced lead generation by 43% through AI-driven lead scoring and data-driven marketing strategy execution
- Boosted sales by 18% via financial forecasting, advanced data analysis, and sales pipeline optimization
- Increased cold call success by 9% through data collaboration with the BDE team, leveraging feature engineering for improved targeting
- Deployed a data-driven content recommendation engine that increased website engagement by 22%
- Displayed strong problem-solving skills, identifying inefficiencies in sales workflows and implementing data-backed improvements

## PROJECT EXPERIENCE

### Robust Crowd Density Estimation Using Wi-Fi RSSI | December 2024

- Designed a machine learning framework using RSSI data to estimate crowd density across dynamic indoor locations
- Evaluated ML models including Random Forest, CNN, XGBoost, and KNN, achieved superior performance with 15% higher accuracy
- Applied statistical and predictive analytics techniques to improve generalizability and resilience to environmental noise

### Automated Bird Sound Spectrogram Segmentation Using UNet | August 2024

- Built a custom UNet model achieving an IoU score of 62.5% for automated segmentation of bird sound spectrograms
- Streamlined avian biodiversity monitoring by automating manual annotation processes, improving conservation efforts
- Applied encoder-decoder architectures to enhance segmentation accuracy and efficiency in bioacoustic analysis

### Generating Music From Text | May 2024

- Generated high-fidelity music from text descriptions with improved contextual relevance by 20% using customized MusicLM
- Customized and fine-tuned deep learning models using TensorFlow and PyTorch on the MusicCaps dataset
- Enhanced model performance by 9% through rigorous evaluation and hyperparameter optimization

## EDUCATION

### Master of Science in Artificial Intelligence

Yeshiva University, Katz School of Science & Health | New York, NY | Jan 2025

### Bachelor of Science in IT - Software Development

Gujarat University | Ahmedabad, IN | Jun 2021

## SKILLS & TECHNOLOGIES

- Programming & Databases:** Python, R, Java, PHP, MySQL, MongoDB, PostgreSQL, Neo4j
- Machine Learning & AI:** Regression, Neural Networks, Deep Learning, Natural Language Processing(NLP), Reinforcement Learning, Image Processing, Computer Vision
- Data Science:** Statistical Analysis, Predictive Modeling, Feature Engineering, Forecasting, Data Pipelines
- Libraries & Tools:** NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow, Keras, OpenCV, NLTK, Diffusers, SkLearn
- Cloud & Platforms:** AWS, Google Cloud, Tableau, MATLAB/Octave, Git
- Soft Skills:** Problem-solving, Critical Thinking, Communication, Adaptability, Collaboration, Analytical Reasoning

## CERTIFICATIONS

- Advanced Certification in Data Science | IIIT- Bangalore
- Machine Learning | Coursera - Stanford University