




Zinal Raval

 : zinalraval4444@gmail.com |  : Surat, Gujarat |  : +91 8488084444
github.com/Zinalr44 | kaggle.com/zinalr44 | linkedin.com/in/zinalraval-423596229

Professional Summary

Energetic and driven Data Science student with hands-on experience in AI, machine learning, and robotics. Passionate about solving real-world problems with innovative solutions, I am eager to contribute my technical skills and enthusiasm to impactful projects. Adept at thriving in collaborative environments and committed to continuous learning in the dynamic tech landscape.

Education

Bachelor of Technology in Artificial Intelligence & Data Science (Expected Graduation: 2025)

Minor: Robotics

A.D. Patel Institute of Technology, Anand, India

Technical Skills

- **Programming Languages:** Python, SQL, C/C++
 - **Technologies & Tools:** Arduino IDE, HTML, CSS, MongoDB, Git/GitHub, Jupyter Notebooks, Visual Studio Code, PyCharm
 - **Python Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib
 - **Other Skills:** Data Analysis, Machine Learning, Deep Learning, Data Visualization
 - **Languages:** Gujarati (Native), English, Hindi
-

Professional Experience

Core Team Member (On-site)

MooRopan INDIA PVT. LTD. | Oct 2022 - May 2023

- Boosted social media engagement by 30% with targeted marketing campaigns and data-driven strategies.
- Enhanced brand visibility and customer engagement through strategic data analysis and content management.

Machine Learning Intern (Remote)

Prodigy InfoTech | Jan 2024 - Feb 2024

- Enhanced predictive accuracy by 15% with advanced ML algorithms, optimizing model performance and insights.
- Drove strategic decision-making through innovative data analysis and model interpretation.

Data Science Intern (Remote)

Oasis Infobyte | Feb 2024 - Mar 2024

- Elevated data quality by 25% through meticulous cleaning and pre-processing techniques.
- Developed scalable, data-driven solutions, significantly improving decision-making and operational efficiency.

Projects

- 1. Intelligent Food Image Recognition and Calorie Estimation**
Developed a cutting-edge deep learning model using ResNet50 to classify food items and estimate caloric content, enhancing dietary tracking with high precision.
- 2. Healthcare Billing Data Audit and Analysis**
Created an automated workflow for auditing and analyzing pharmacy billing data with Python, ensuring data accuracy and streamlining report generation using advanced AI techniques.
- 3. Cat vs Dog Image Classifier**
Built a CNN with TensorFlow and Keras to achieve 95% accuracy in classifying images of cats and dogs, demonstrating strong skills in image classification.
- 4. Movie Recommendation System**
Designed and implemented a recommendation engine using collaborative filtering and content-based algorithms, increasing user engagement with personalized movie suggestions.
- 5. Robotic Nurse(on-going)**
Innovated a robotic nurse prototype for medication delivery and vital sign monitoring, funded by SSIP India, enhancing patient safety and operational efficiency.
- 6. Robotic Arm**
Led the development of a robotic arm for precise pick-and-place tasks, improving efficiency and accuracy with sensors and actuators, supported by SSIP India funding.
- 7. Predicting Car Selling Prices**
Developed a predictive model using Linear Regression and Random Forest to estimate used car prices, enhancing price estimation accuracy through comprehensive data analysis.
- 8. Customer Segmentation Analysis**
Conducted a detailed analysis of customer spending patterns to drive strategic business decisions, resulting in a 15% increase in revenue by identifying key customer segments.
- 9. Spam Message Detection**
Implemented machine learning models using SVM and Decision Trees to classify text messages as spam or ham, achieving accurate detection through effective feature engineering and data pre-processing.

Achievements

- Reckon 4.0 Hackathon (National Winner)**
Secured first place for developing an innovative AI-based project, showcasing exceptional problem-solving and technical skills.
- SSIP Hackathon 2022 (Regional Selection)**
Chosen for the regional round by the Government of Gujarat for a ground-breaking technology solution, highlighting creativity and technical prowess.