

ARYAN PATEL

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ABOUT ME

Final-year Information Technology student specializing in Machine Learning and Predictive Analytics, with hands-on experience building and deploying production-ready ML applications. Developed two end-to-end models (Solar Power Forecasting & Heart Disease Prediction) achieving 77%+ recall using Python, Scikit-learn, and Streamlit. Strong foundation in supervised and unsupervised learning (10+ algorithms), with solid understanding of neural networks, feature engineering, hyperparameter tuning, and model interpretability. Seeking an AI/ML internship to apply predictive modeling, data science, and deployment skills to solve real-world business problems.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, SQL, C++
 - **Machine Learning:** Scikit-learn, TensorFlow, XGBoost, NumPy, Pandas, NLTK, Logistic Regression, Random Forest, Gradient Boosting, SVM, Naive Bayes, Decision Trees, K-Means, ANN, RNN
 - **Data Analysis & Visualization:** Data Cleaning, EDA, Statistical Analysis, Matplotlib, Seaborn, Accuracy, Precision, Recall, F1-Score, ROC-AUC, Confusion Matrix
 - **Web Technologies:** React.js, Node.js, HTML, CSS, Streamlit, RESTful APIs
 - **ML Techniques:** Supervised Learning, Unsupervised Learning, Time Series Analysis, Hyperparameter Tuning (GridSearchCV, RandomizedSearchCV), Model Optimization, Class Imbalance Handling, Feature Engineering
 - **Tools & Platforms:** Git, GitHub, Jupyter Notebook, Google Colab, VS Code
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PROJECTS

Heart Disease Prediction System

GitHub: [http://github.com/aryan578765/Heart-Disease-Prediction](https://github.com/aryan578765/Heart-Disease-Prediction) | **Live Demo:** <https://heart-disease-prediction-7.streamlit.app>

- Achieved 77.48% recall on CDC's 300K+ patient records, optimized to minimize false negatives in clinical diagnostics
- Compared 6 algorithms using RandomizedSearchCV; handled 91:9 class imbalance via stratified splitting and class weighting
- Deployed Streamlit web app with feature importance analysis (17 health indicators) and real-time risk assessment

Solar Power Generation Forecasting System

GitHub: <https://github.com/aryan578765/SPGF> | **Live Demo:** <https://solar-power-generation-forecasting.streamlit.app>

- Built regression model predicting solar DC power using 7 engineered features (weather data + temporal patterns)
- Applied StandardScaler normalization and end-to-end ML pipeline (preprocessing → training → deployment)
- Deployed interactive Streamlit app for real-time predictions; evaluated using MSE and R² metrics

Money Collection Management System

GitHub: <https://github.com/aryan578765/money-collection-system> | **Live Demo:** <https://moneycollectionsystem.netlify.app>

- Full-stack web app with JWT authentication, role-based access control (admin/member), and bcrypt password encryption
- RESTful API backend handling 500+ transaction records; React frontend with real-time dashboard and Bootstrap UI

EDUCATION & TRAINING

S.N. Patel Institute of Technology & Research Centre, Gujarat Technological University

2022–2026

Bachelor of Engineering (B.E.) – Information Technology

CGPA: 7.98/10 (6 semesters) | SPI: 8.22 (6th semester)

CERTIFICATIONS & ACHIEVEMENTS

- Generative AI – Google (June 2025)
- AI Agent Architect – IBM SkillsBuild (July 2025)
- Artificial Intelligence Primer Certification – Infosys (Dec 2025)
- Machine Learning Foundation Certification – Infosys (Dec 2025)
- Artificial Intelligence Foundation Certification – Infosys (Dec 2025)