

# Dhairya Adroja

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LinkedIn — GitHub — Portfolio

## Professional Summary

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- Data Science enthusiast and Computer Science student with expertise in statistical analysis, machine learning, and data visualization. Proven experience in extracting actionable insights from large datasets (50,000+ data points) with 95% accuracy. Passionate about transforming complex data into strategic business intelligence and predictive models.

## Technical Skills

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- **Data Science & Analytics:** Statistical Analysis, Predictive Modeling, Data Mining, A/B Testing
- **Machine Learning:** Supervised/Unsupervised Learning, Feature Engineering, Model Selection, Cross-Validation
- **Programming Languages:** Python, R, SQL, JavaScript, MATLAB
- **Data Science Libraries:** Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Plotly, Scipy
- **Database & Big Data:** MongoDB, PostgreSQL, MySQL, Data Warehousing, ETL Pipelines
- **Visualization & BI:** Tableau, Power BI, D3.js, Jupyter Notebooks, Streamlit, Dashboard Development

## Projects

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- **CodeTrade - Financial Data Analytics Platform** — Python, Pandas, NumPy, Streamlit  
GitHub — *Advanced Financial Pattern Analysis*
  - Analyzed 50,000+ financial data points using advanced statistical methods achieving 95% pattern detection accuracy
  - Developed comprehensive data pipeline with ETL processes, data cleaning, and feature engineering
  - Created interactive dashboards with real-time analytics supporting 25+ concurrent business users
  - Implemented predictive models using ensemble methods reducing prediction error by 40%
  - Built automated reporting system generating insights from 1000+ files per hour with data validation
- **Enterprise Chat Analytics & Intelligence** — Python, NLP, MongoDB, Data Visualization  
GitHub — *Communication Data Analysis Platform*
  - Developed comprehensive analytics dashboard processing 100+ concurrent user interactions
  - Implemented sentiment analysis and communication pattern recognition using NLP techniques
  - Created automated anomaly detection system for spam identification with 99.5% accuracy
  - Built real-time KPI tracking and business intelligence reporting for administrative insights
  - Designed user behavior analysis models predicting engagement patterns and churn probability
- **Physics Simulation Data Analysis** — Python, Statistical Modeling, Data Visualization  
GitHub — *Scientific Data Analysis Platform*
  - Analyzed complex physics simulation data from 1000+ particle interactions with statistical modeling
  - Developed predictive models for particle behavior with 95% accuracy using regression analysis
  - Created comprehensive data visualization suite for scientific data interpretation
  - Implemented performance optimization analysis reducing computational complexity by 40%
- **Business Intelligence Dashboard Suite** — Python, Tableau, SQL, Data Warehousing  
*Multi-Domain Analytics Platform*
  - Designed end-to-end business intelligence solution integrating multiple data sources
  - Built automated ETL pipelines processing diverse datasets with data quality validation
  - Created executive dashboards with KPI tracking and predictive analytics for strategic decision-making
  - Implemented data warehouse architecture supporting historical analysis and trend forecasting

## Experience

- Data Scientist (Personal Projects)** 2023 – Present  
*Analytics & Business Intelligence Development* Self-Directed Research
  - Conducted end-to-end data science projects from data collection to model deployment and monitoring
  - Developed predictive models and analytics solutions extracting actionable insights from complex datasets
  - Created automated reporting systems and interactive dashboards for business intelligence
  - Implemented statistical analysis and machine learning techniques for pattern recognition and forecasting
- Open Source Data Science Contributor** 2023 – Present  
*Various Projects* GitHub Community
  - Contributed to 5+ open-source data science projects focusing on analytics and visualization improvements
  - Implemented data processing optimizations and statistical analysis enhancements
  - Collaborated with global data science community on best practices and methodology improvements

## Data Science Expertise

- Statistical Analysis:** Hypothesis testing, correlation analysis, regression modeling, time series analysis
- Machine Learning:** Classification, clustering, dimensionality reduction, ensemble methods
- Data Engineering:** ETL pipelines, data cleaning, feature engineering, data warehouse design
- Business Intelligence:** KPI development, dashboard design, automated reporting, strategic analytics
- Data Visualization:** Interactive dashboards, statistical plots, business presentations, storytelling with data

## Achievements

- 1st Place - CodeTrade Hackathon: Advanced financial data analytics platform (July 2025)
- Multiicon Hackathon Winner: Secured internship opportunity through innovative data science solution
- Chess Champion: 1st Place Team Event, Runner-up Individual Competition demonstrating analytical thinking
- Analytics: Achieved 95% accuracy in pattern recognition across 50,000+ data points
- Performance: Improved data processing efficiency by 60% through algorithmic innovation
- Business Impact: Built analytics solutions serving 25+ concurrent users with real-time insights

## Certifications & Continuous Learning

- Self-studied Advanced Statistics, Machine Learning, Data Mining, and Business Intelligence
- Hands-on experience with production-level data science workflows and model deployment
- Active participation in data science communities and kaggle competitions
- Continuous learning of emerging data science tools, cloud platforms, and big data technologies

## Education

- Bachelor of Technology in Computer Science and Engineering** Expected May 2027  
*Darshan University, Rajkot, Gujarat* CGPA: 8.1/10
  - Relevant Coursework: Statistics, Data Structures, Algorithms, Database Systems, Machine Learning
- Diploma in Computer Science and Engineering** May 2023  
*Kalyan Polytechnic, Jamnagar, Gujarat* First Class with Distinction
  - Foundation: Mathematics, Programming, Statistics, Database Management, System Analysis

## Languages

- English:** Professional proficiency
- Hindi:** Native proficiency
- Gujarati:** Native proficiency