Dhairya Adroja

Rajkot, Gujarat, India — +91 9664847885 — dhairyaadroja3391@gmail.com
LinkedIn — GitHub — Portfolio

Professional Summary

- 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

- **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

- **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 Winner - 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 Excellence: Achieved 95% accuracy in pattern recognition across 50,000+ data points

- * Performance Optimization: Improved data processing efficiency by 60% through algorithmic innovation

- * Business Impact: Developed 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