



HARDIK BALAS
M.Sc. (Data Analytics)

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LinkedIn Profile

PROFESSIONAL SUMMARY

Senior Data Analyst skilled in data science, machine learning, and statistical analysis. Expertise in building data pipelines, predictive models, and interactive dashboards using Python, SQL, and Power BI. Proficient in applying ML algorithms to extract actionable insights from complex datasets. Demonstrated success in improving operational efficiency and enabling data-driven decisions across business and agricultural technology domains.

EDUCATION

- Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)** *CPI: 7.74*
M.Sc. (Data Analytics) | Location: Gandhinagar, Gujarat 2022-2024
- Anand Agricultural University (AAU)** *CPI: 7.637*
Bachelor of Technology (B. Tech) | Location: Anand, Gujarat 2018 - 2022

SKILLS

- Area(s) of Interest:** Data Analysis, Machine Learning, Deep Learning, Statistical Analysis, Data Visualization, Predictive Modeling, Business Analytics
- Programming Languages:** Python, R, SQL, Bash
- Database Languages & Tools:** SQL (PostgreSQL, MySQL), NoSQL (MongoDB), Excel, Google BigQuery
- Analytics & Visualization Tools:** Power BI, Tableau, Looker Studio, Matplotlib, Seaborn, Plotly
- Tools & Frameworks:** Scikit-Learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, Statsmodels, OpenCV
- Data Science & Cloud Platforms:** Google Colab, Jupyter Notebook, AWS (S3, SageMaker), Git, GitHub
- Statistical & ML Techniques:** Regression, Classification, Clustering, Time Series Forecasting, Hypothesis Testing, Feature Engineering, Model Evaluation
- Microsoft Office:** Microsoft Excel (Advanced), PowerPoint, Word
- Soft Skills:** Problem-Solving, Analytical Thinking, Communication, Teamwork, Presentation Skills

EXPERIENCE

- Senior Data Analyst | Semantic Technologies And Agritech Services Pvt. Ltd.** *Jan 2024 - Present*
Pune, Maharashtra
 - Working on the MNCFC Government Project for "Satellite-based Crop Mapping and Area Estimation" in 7 states, focusing on classification, area estimation, and accuracy assessment of selected crops in selected districts.
 - Engineered machine learning algorithms for precision agriculture, increasing yield estimation accuracy by 20% and optimizing soil NPK analysis, resulting in a 15% productivity boost.
 - Directed data collection, preparation, and analysis efforts to support project objectives, significantly enhancing decision-making processes and project efficiency.
 - Led the implementation of "Multi-Model Ensemble Approach for Crop Yield Estimation in Districts of Maharashtra during the Kharif-2023 Season," achieving a 25% improvement in predictive accuracy.

PROJECTS

- Agricultural Drought Prediction using ML & Satellite Time-Series Data** *IIRS-ISRO*
 - Developed predictive model for agricultural drought in Gujarat using machine learning and satellite imagery, achieving **85% accuracy**.
 - Reduced drought prediction time by **40%** through advanced remote sensing analysis and optimized algorithm deployment.
- Business Intelligence Dashboard for Telecom Customer Analytics** *Analytics Vidhya*
 - Analyzed Comcast broadband complaints dataset, identifying key pain points and recommending solutions that led to **20% reduction** in customer complaints.
 - Designed interactive Power BI dashboards with actionable insights, increasing stakeholder engagement by **30%** and accelerating data-driven decision making.

- **Full-Stack Inventory Management System with Database Integration**

DA-IICT

- Built end-to-end inventory tracking system using Python and PostgreSQL, reducing holding costs by **15%** through automated supplier and sales management.

CERTIFICATION

- **Data Analytics and Visualization using PowerBI and Tableau**(Analytics Vidhya Educon Pvt. Ltd.)
- **Microsoft Excel - Excel from Beginner to Advanced**(Udemy)
- **Crop Yield Modeling using Spatial Data**(SatSure Analytics India Pvt. Ltd.)
- **ArcGIS Pro: Essential Workflows**(Esri India Technologies Pvt. Ltd.)