

Devika Lahari Bandi

Entry-level Data Analyst

Hyderābād, India | [LinkedIn](#) | [Portfolio](#)

Entry-level data analyst with two internships, building dashboards and models that teams use to make decisions. Strong in SQL, Python, and Power BI, with experience presenting insights to senior stakeholders.

EXPERIENCE

Machine Learning Research (Academic Project) Feb 2025 — Jun 2025
Godavari Wave Technologies Pvt Ltd *Rajahmundry, Andhra Pradesh, India*

Built and compared Random Forest, KNN, and Gaussian Naive Bayes models for rainfall prediction on 10,000+ records, reaching 83.8% accuracy after EDA and feature engineering. Built a Flask interface that returns real-time predictions to non-technical users. Documented model architecture (UML) and findings in research write-ups for internal and academic reporting.

Data Analyst Intern Jul 2024 — Aug 2024
Mentorness *Ahmedabad, Gujarat, India*

Delivered 15+ Power BI and Excel dashboards for senior leadership teams to track KPIs. Automated reporting pipelines, cutting manual data processing by 20%. Validated data pipelines with cross-functional teams and implemented process improvements that increased team productivity by 15%.

Data Visualization Virtual Experience — TCS (Forage) Feb 2024 — Feb 2024
Tata Consultancy Services

- Built 3 executive-level dashboards in Power BI/Tableau applying data storytelling principles, reducing stakeholder interpretation time by an estimated 30%.
- Applied visualization best practices across chart selection, layout, and color hierarchy — producing reports ready for C-suite presentation.

Data Analytics Virtual Simulation — Accenture (Forage) Feb 2024 — Feb 2024
Accenture

- Cleaned and modeled job market datasets across 7 categories using Python and Excel, uncovering hiring trends for executive-level reporting.
- Designed 5+ interactive dashboards explaining market patterns, reducing manual analysis effort by an estimated 25%.

Data Analytics Simulation — Quantum (Forage) Feb 2024 — Feb 2024
Quantium

- Performed customer segmentation on large retail datasets, identifying 4 distinct customer groups to support targeted marketing strategy.
- Built churn and LTV prediction models using Python and SQL, improving retention targeting accuracy by an estimated 18%.
- Applied A/B testing and uplift modeling methodology to validate a promotional strategy, estimating a 10–15% revenue uplift potential.

Power BI Job Simulation — PwC (Forage) Feb 2024 — Feb 2024
PwC

- Built 3 Power BI dashboards (call center, user feedback, diversity metrics) using DAX and Power Query, enabling real-time KPI monitoring for HR and ops teams.
- Identified 2 critical gaps in customer experience operations and delivered actionable recommendations through data-backed visual reports.

Full Stack Developer Apr 2023 — Jul 2023
REVANTH SOFTWARE SOLUTIONS PVLTD *Rajahmundry, Andhra Pradesh, India*

- Built and deployed React.js frontend + Node.js/Express backend for a client-facing application, reducing page load time by an estimated 20%.
- Implemented JWT authentication system, securing user access for 100+ user accounts with role-based permissions.
- Developed Chart.js workflow dashboards, giving project managers real-time visibility into team task completion rates.

Data Entry Operator Sep 2022 — Nov 2022
Sri Godavari Aluminium *Rajahmundry, Andhra Pradesh, India*

- Processed and validated large-scale datasets with 100% accuracy, eliminating data errors across 3 months of continuous operations.
- Detected and corrected recurring data entry errors, reducing database inconsistencies by an estimated 30%.
- Streamlined 2 manual data intake processes, cutting average entry time per record by an estimated 15%.

EDUCATION

Adikavi Nannaya University (AKNU), Rajamahendravaram Nov 2023 — Nov 2025
Master's degree in Computer Science

PROJECTS

Random Forest model predicting AQI from EPA data, Air Quality Prediction and Optimization (Machine Learning)

Trained a Random Forest on EPA data to predict AQI from 5 pollutants. Applied EDA, feature engineering, and Standard Scaler normalization to prepare the data.

Airbnb Berlin Market Analysis (Python)

Analyzed 16,000+ Airbnb Berlin listings to study pricing patterns, licensing compliance, location distribution, host behavior, and market segmentation.

Impact:

- Identified 63.5% unlicensed hosts, critical for policy awareness.
- Discovered pricing drivers (location, reviews, room type).

COVID-19 Global Analysis (Tableau / Excel)

Analyzed COVID cases, deaths, vaccination trends, and country-wise growth rates using WHO & JHU datasets.

Created Tableau dashboards visualizing global comparisons and time-series patterns.

Impact:

- Delivered 5+ interactive dashboards for public health insights.
- Identified severity regions and change patterns across countries.

Logistic regression classifier for imbalanced transaction data, Credit Card Fraud Detection (Machine Learning)

Built a logistic regression classifier on 284K+ transactions, using SMOTE to handle severe class imbalance. Reduced false negatives compared with the baseline model, so fewer fraudulent transactions go undetected.

IPL 2021-2023 Data Analysis Project

This repository contains a comprehensive data analysis project of the Indian Premier League (IPL) for the seasons 2021 to 2023. The analysis is performed using Power BI to uncover insights, trends, and patterns from the provided datasets.

Data Cleaning and Transformation : Initial data cleaning and transformation processes to prepare the raw IPL datasets for analysis.

Performance Metrics : Detailed analysis of key performance metrics including player performance, team performance, match outcomes, and more.

Trend Analysis : Examination of trends over the three seasons to identify patterns and predict future performance.

Netflix Movies and TV Shows Analytics - Power BI Project

- Explore and analyze Netflix's extensive library of movies and TV shows with this Power BI project.
- Gain insights into trends, genres, ratings, and more using interactive visualizations.
- With user-friendly dashboards and customizable reports, this project provides valuable insights for content creators, marketers, and enthusiasts alike.
- Uncover patterns, make data-driven decisions, and stay ahead in the dynamic world of streaming entertainment.

SQL analysis of order and sales data, Pizza Sales Analysis (SQL)

Analyzed 10,000+ orders across 4 tables using JOINS, CTEs, and window functions. Found that Friday evenings account for 22% of weekly orders, which can guide staffing and promotions.

Rainfall Prediction using Machine Learning

Developed an end-to-end machine learning web application to predict rainfall for the next day (Rainy or Sunny) using historical weather data. The project was submitted to Adikavi Nannaya University, as part of the M.Sc. Computer Science degree (2023-2025).

Key Highlights:

Dataset: 9,15,355 records with 23 weather features (temperature, humidity, pressure, wind speed, evaporation, sunshine, cloud cover) sourced from Kaggle

Trained and compared 3 supervised ML models: Random Forest (83.86%), KNN (74.78%), Gaussian Naïve Bayes (74.48%)
Random Forest selected as the best model for deployment

Built a Flask web application with interactive prediction interface

Full ML pipeline: Data Preprocessing → Feature Selection → Model Training → Evaluation → Web Deployment

Tech Stack: Python | Flask | Scikit-learn | Pandas | NumPy | Matplotlib | Seaborn | HTML | CSS | Bootstrap

Sales & Finance Analytics (Power BI / Excel)

Created a full automated 4-year P&L and Sales Performance Dashboard using Excel (Power Query + DAX).
Developed dynamic visualizations for revenue, margins, product performance, geography, and YoY trends.

Impact:

- Improved reporting efficiency and flexibility by 25%.
- Enabled leadership to track profitability and cost trends in real time.

Shark Tank India (Power BI)

Built a Power BI dashboard analyzing 100+ Shark Tank India pitches, including funding patterns, industry categories, investor participation, and success rates.

Impact:

- Highlighted top-performing sectors and investment behavior.
- Helped identify factors associated with higher funding probability.

Interactive dashboard for credit card spending behavior, Mitron Bank Credit Card Analysis

Built an interactive dashboard covering spending patterns, customer segmentation, and monthly trends using DAX measures. Identified high-spend customer segments to support targeted offers and retention.

CERTIFICATIONS

Machine Learning Reasearch (Academic Project), Godavari Wave Technologies Pvt Ltd	Jun 2025
Data Analyst Internship, Mentorness	Aug 2024
Maths and Statistics Course, CloudyML	Dec 2023
Power BI Course, CloudyML	Dec 2023
SQL Course, CloudyML	Dec 2023
MS Excel Course, CloudyML	Nov 2023
Tableau Course, CloudyML	Nov 2023
Python Course, CloudyML	Oct 2023
Full Stack Developer, Revanth Software Solutions	Jul 2023
Data Entry Operator, Sri Godavari Aluminium	Nov 2022

SKILLS

Holidays · pytest · PyYAML · Plotly · Joblib · Ploty · Stream lit · Docker · XGBoost · Hugging Face spaces · Cascading Style Sheets (CSS) · HTML · Data storytelling · SQL · Data Analysis · Dashboard Development · Tableau · Business Intelligence (BI) · Random Forest · MySQL · GitHub · Data preprocessing · Trend Analysis · MySQL Workbench · Joins · CTEs · Aggregations · Window Functions · Data Exploration · PowerPivot · DAX · Business Analytics · Logistic Regression · Data Balancing · Model Evaluation · Confusion Matrix · Accuracy Metrics · Seaborn · Matplotlib · Predictive Modeling · Remote collaboration · Communication · Data Entry · Quality Control · Data Accuracy · Documentation · React.js · Node.js · Python · Pandas · NumPy · Excel · Power Query · Power BI · KPI Reporting · Dashboard Design · scikit-learn · Feature Engineering · Flask · Stakeholder Reporting · Cross-functional Collaboration · Technical Documentation