

# Basil Biju

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## Summary

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Detail-oriented and analytical graduate with a Bachelor's in Computer Applications and a specialized Diploma in Data Science. Proficient in Python, SQL, and Excel for data analysis, dashboard creation, and model development. Experienced in building machine learning models, creating business intelligence reports, and working with real-world datasets. Background in inventory and operations has strengthened understanding of data-driven decision-making.

## Key Projects

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### E-Commerce Sales Analysis Using Excel

github.com/Blinkit

- Analyzed grocery sales data using Excel PivotTables, charts, and slicers.
- Created interactive dashboards to highlight top-selling products, regional trends, and seasonal demands.
- Conducted RFM-based customer segmentation and recommended inventory optimizations.

### Parkinson's Disease Detection Using Machine Learning

github.com/Disease

- Trained ML models (SVM, Random Forest, Logistic Regression) on vocal biomarkers using UCI dataset.
- Performed EDA, feature selection, and model tuning with GridSearchCV.
- Visualized results using Matplotlib and Seaborn; achieved strong accuracy and recall.

### Customer Churn Prediction Using Machine Learning

github.com/Customer

- Built and compared 7 classification models to predict customer churn for a telecom dataset.
- Used preprocessing techniques including label encoding, scaling, and outlier handling.
- Achieved highest F1-score with Gradient Boosting and exported the model using Joblib.

### Plant Disease Detection using Image Classification

github.com/Plant

- Developed a CNN using TensorFlow/Keras to classify plant leaf diseases.
- Applied data augmentation, normalization, and model evaluation using confusion matrices.
- Accurately detected diseases across crops like tomato, potato, and bell pepper.

## Education

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### Edure

Jan 2025 – Jul 2025

Diploma in Data Science

### Mahathma Gandhi University

Sep 2020 – May 2023

Bachelor of Computer Applications (BCA)

## Technologies

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**Languages:** Python, SQL

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, OpenCV

**Machine Learning:** Keras, TensorFlow, Joblib

**Data Analysis:** Excel (Pivot Tables, VLOOKUP, Dashboards), EDA, Feature Engineering

**Tools:** Jupyter Notebook, Git, GitHub, MySQL