

# Varun Rasal

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## Professional Summary

Results driven Data Analyst with hands on experience transforming structured data into actionable business insights using SQL, Python, Excel, and Power BI. Strong in data cleaning, exploratory and statistical analysis, and building interactive dashboards to highlight trends and key performance indicators. Proficient in using AI tools to enhance analytical workflows and extract precise, data driven insights. Committed to driving data informed decision making through rigorous analysis, accurate reporting, and clear communication.

## Technical Skills

**Languages:** SQL, Python (pandas, NumPy)

**BI & Dashboarding:** Power BI (DAX, KPI Reporting, Interactive Dashboards), Excel (Pivot Tables, VLOOKUP, XLOOKUP)

**Analytics:** ETL, Exploratory Data Analysis, Correlation Analysis, Hypothesis Testing, Trend Analysis, Data Wrangling

**Generative AI:** Prompt Engineering, Generative AI Tools

**Soft Skills:** Problem Solving, Analytical Thinking, Attention to Detail, Data Storytelling

## Experience

### AI/ML Intern | Infosys Springboard (Virtual) | Sep 2025 – Nov 2025

- Engineered a multimodal plant disease detection system (PlantDoc AI Diagnostician) using ResNet-18 CNN in PyTorch trained on PlantVillage and PlantDoc datasets for image classification, and a fine tuned Hugging Face transformer model for symptom based text classification, delivering disease name, confidence score, and treatment recommendations in real time.
- Designed and deployed a full stack ETL and dashboarding pipeline with a FastAPI backend handling model inference and image upload APIs, React frontend integrated via CORS middleware, and a rule based recommendation engine mapping diagnosed diseases to targeted treatments and preventive care measures.
- Performed end to end data wrangling on multi source agricultural datasets combining leaf image data and symptom text inputs; analyzed prediction confidence trends and KPI reporting metrics to validate model accuracy and improve diagnostic reliability across 38+ plant disease categories.

## Projects

### AI Powered Plant Disease Diagnosis | Python, PyTorch, FastAPI | [GitHub](#)

- Performed data wrangling on plant disease datasets combining image and symptom data to derive actionable insights, enabling real time disease classification and automated diagnostic dashboarding.

### Customer Churn Analysis | Excel, SQL, Power BI | [GitHub](#)

- Analyzed 7,043 telecom customer records to identify churn drivers; built Power BI KPI reporting dashboards tracking churned customers, churn rate, and revenue at risk; developed an interactive HTML report using prompt engineering to surface ETL processed insights.

### Sales Performance Dashboard | Power BI, DAX, Excel | [GitHub](#)

- Built an executive dashboarding solution analyzing 9,800+ transactions to track YoY growth, regional contribution, and product profitability via DAX driven KPI reporting, reducing manual reporting effort by 40%.

## Education

**Bachelor of Engineering in Computer Engineering** | A.C. Patil College of Engineering, Navi Mumbai | Graduation: 2026 | CGPA: 7.64

## Certifications

- Artificial Intelligence and Machine Learning Virtual Internship – Infosys Springboard [\[View Certificate\]](#)
- Data Analysis in MATLAB [\[View Certificate\]](#)
- Generative AI – Outskill [\[View Certificate\]](#)

## Additional Information

Co authored an IEEE format research paper titled "Polar Path Optimizer" as part of a final year major project, applying data analysis and algorithmic problem solving to optimize polar navigation routes.