

# Giridhar Malagi

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## SUMMARY

I work with data using tools like Python and Power BI to explore patterns and answer specific questions. I've built dashboards that help track performance and used text analysis to understand opinions shared on social media. Experienced in machine learning optimization and manufacturing process analysis. I'm interested in using data to understand problems and support better decisions.

## EDUCATION

**BE, Electronics and Communication | BLDEA's V.P. Dr. P.G. Halakatti College of Engineering & Technology | Jul 2025**  
Vijayapura, India | CGPA: 7.5

- **Relevant Coursework:** Data Structures, Machine Learning, Statistical Analysis, Database Management
- **Projects:** Completed data analysis projects including sentiment analysis and sales performance dashboards

## WORK EXPERIENCE

**Virtual Intern – Optimization of Machine Downtime | 360DigitMG / AiSPRY | Feb 2025 - Mar 2025**

Remote

- Analyzed manufacturing inefficiencies through data review, identifying downtime causes contributing to **15%** reduction in machine idle time
- Proposed strategic recommendations for process improvements, leading to potential **20%** decrease in machine downtime, optimizing operational efficiency
- Collaborated with cross-functional teams implementing data-driven solutions, enhancing industrial optimization understanding under NDA confidentiality
- Conducted statistical analysis on production data using Python, identifying **5** critical bottlenecks affecting manufacturing throughput
- Developed automated reporting system for downtime tracking, reducing manual report generation by **60%** and improving data accuracy
- Performed root cause analysis on equipment failures, documenting findings contributing to **25%** improvement in predictive maintenance

## PROJECTS

**Twitter US Airline Sentiment Analysis | May 2025**

Vijayapura, Karnataka

- Analyzed and cleaned over **15,000** tweets identifying sentiment trends, resulting in actionable insights influencing customer service strategies for three major carriers
- Created interactive Power BI dashboard visualizing sentiment trends by airline, city, and complaint reason, facilitating data-driven decisions with **35%** increase in resolution efficiency
- Executed topic modeling (LDA) on processed dataset uncovering underlying patterns, revealing key issues accounting for **60%** of negative mentions
- Implemented advanced text preprocessing including tokenization, stemming, and stop-word removal, improving model accuracy by **18%**
- Deployed machine learning classification models (Naive Bayes, SVM) achieving **87%** accuracy in sentiment prediction for real-time analysis

**Superstore Sales Performance Dashboard | Apr 2025 - May 2025**

Vijayapura, Karnataka

- Developed comprehensive executive dashboard utilizing Power BI to visualize over **\$2M** in sales data, enhancing data accessibility for **50+** decision-makers
- Established key performance indicators (KPIs) for Sales, Profit, and Quantity metrics with interactive visualizations, leading to **30%** reduction in report generation time
- Improved filter system for year, region, and segment exploration, resulting in **40%** increase in dashboard usage and positive user feedback
- Engineered dynamic forecasting models using historical sales trends, enabling accurate revenue predictions with **92%** confidence intervals
- Optimized data refresh processes and implemented automated data validation checks, reducing dashboard errors by **45%**

## LANGUAGES, SKILLS AND CERTIFICATES

**Programming:** Python, C++, C, JavaScript, SQL

**Data & ML:** Power BI, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, NLP, Tableau

**Frameworks:** Django, React.js, Node.js, Flask

**Databases & Tools:** PostgreSQL, MySQL, SQLite, Git, VS Code, Jupyter Notebook, Google Colab