

# Tanushree Devarapalli

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## PROFESSIONAL SUMMARY

Business Analytics graduate with experience in AI-assisted data analysis, data visualization, and business operations across financial services, HR, and tech. Skilled at translating datasets into stakeholder-ready insights using Excel, Power BI, Tableau, and Python; strong communicator with a track record of cross-functional collaboration and process improvement.

## SKILLS

**Analytics & Tools:** Business Analysis, Data Visualization, Statistical Analysis, Data Mining, Excel, Power BI, Tableau, Process Improvement, Project Management, Cross-Functional Collaboration

**AI & Programming:** AI-Assisted Analysis (Claude, ChatGPT, Microsoft Copilot), Python (foundational), SQL (foundational), Pandas, Scikit-learn, Matplotlib, Predictive Modeling

## EXPERIENCE

**Associate Specialist, Participant Transactions** Sep 2023 – Dec 2023  
*Empower* India

- Processed 15+ service requests/day with <3% error rate on U.S. retirement plans (401k), covering contributions, distributions, rollovers, and account updates per compliance standards
- Reviewed financial data, resolved discrepancies, and collaborated cross-functionally to improve operational efficiency and turnaround times

**HR & Business Operations Intern** May 2022 – Jun 2022  
*Vitara Enterprises* Virtual

- Analyzed Hire-to-Retire business processes and recommended workflow optimizations; assisted with recruitment, employee records, and engagement initiatives
- Coordinated social media marketing campaigns and analyzed engagement metrics

**Project Intern** Apr 2021 – May 2021  
*Nblik App Development* Virtual

- Gathered user requirements, documented feedback for the development team, and identified UX improvements to enhance app functionality

**Volunteer – COVID-19 Vaccination Influencer Campaign** Mar 2021 – Apr 2021  
*Bhumi* Virtual

- Created and distributed awareness content to educate the public and drive COVID-19 vaccination registration across social platforms

## PROJECTS

**TxDOT Safety Impact Analysis – Work Zone Crash Risk Predictive Modeling**  
Capstone on 93,000+ TxDOT records; deployed Gradient Boosting Classifier achieving 1.00 F1-score; presented data-driven highway safety recommendations to stakeholders.

**Retail Superstore Data Analysis** May 2026  
End-to-end analytics pipeline built with AI assistance (Claude via Claude Code in VS Code): cleaned data with Pandas, conducted EDA across 7 dimensions (sales, profit, time series, geographic, customer segment, shipping), and compiled a professionally formatted PDF report using Plotly and ReportLab.

**Predictive Maintenance Analysis**  
Built and optimized Random Forest and Neural Network models on a 5,000-record dataset achieving 80% accuracy using Python and Scikit-learn.

**Starbucks Canned Drinks – Product Recovery Strategy**  
Led team analysis of negative customer reviews; developed a comprehensive recovery strategy addressing quality perception and market positioning challenges.

## EDUCATION

**Master of Science in Business Analytics** Aug 2024 – May 2026  
University of North Texas Denton, TX

**Bachelor of Business Administration (BBA)** Aug 2020 – May 2023  
St. Claret College Bangalore, India

## ADDITIONAL INFORMATION

Open to relocation anywhere in the U.S. | Work Authorization: F-1 OPT