

# AMIT YADAV

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## Education

### Madan Mohan Malaviya University of Technology

Bachelor of Technology in Electrical Engineering

Nov. 2021 – May 2025

Gorakhpur, India

## Professional Experience

### Deloitte Australia (Forage Program)

July 2025

Data Analytics Virtual Intern

Remote

- Transformed messy datasets by removing null values, filtering, and restructuring columns to improve data quality by 98%.
- Delivered data-driven insights that identified 20% drop in sales in underperforming regions with strategic recommendations.
- Applied advanced data cleaning techniques and statistical analysis to support business decision-making.

### Northern Eastern Railway, Gorakhpur

June 2024 – August 2024

Summer Intern

Gorakhpur, India

- Monitored integration of 50+ bearing condition sensors across 20+ coaches, enhancing fault detection by 30%.
- Investigated three common causes of power surges using root cause analysis, preventing 10 potential surge failures.
- Implemented predictive maintenance strategies through sensor data analysis and monitoring systems to 20%.

## Projects

### AI-Powered Telegram Bot | Python, n8n, Claude API, REST API, Webhooks | @amittydvvbot

Aug 2025

- Architected intelligent conversational bot using n8n workflow orchestration and Claude Sonnet 4, achieving 95% query resolution rate across 100+ daily user interactions.
- Configured webhook-based real-time message processing with 200ms average latency, decreasing user wait time by 80%.
- Established multi-turn dialogue framework with session persistence, maintaining contextual awareness for 15+ message exchanges per conversation.

### AI Voice Calling Assistant | n8n, Voice APIs, Speech Recognition, LLM

Aug 2025

- Orchestrated voice-enabled assistant through n8n pipelines connecting 8 different API services, processing 50+ calls weekly with 92% successful interaction completion rate.
- Configured intent classification system recognizing 20+ distinct user requests with 88% accuracy, routing calls appropriately within 3 seconds.
- Automated telephony workflows eliminating 15 hours of manual call management monthly, enabling round-the-clock customer engagement.

### Pharmaceutical Sales Dashboard | Power BI, SQL, Excel, ETL

July 2025

- Analyzed 20,000+ transactions to monitor KPIs including regional sales, rep productivity and performance.
- Engineered ETL pipeline integrating 5 SQL data sources, reducing reporting time from 7 days to 1 day.
- Identified 5 underperforming reps and 3 low-ROI products, contributing to 12% increase in regional performance.
- Built interactive dashboards with drill-down capabilities for executive-level reporting.

## Technical Skills

**Programming Languages:** Python, SQL

**Data Analysis & Visualization:** Power BI, MS Excel, Matplotlib, Seaborn

**AI & Automation:** AI Agent Development, n8n Workflow Automation, Chatbot Development, Webhook Integration

**Databases:** Microsoft SQL Server, MySQL, PostgreSQL

**Tools & Frameworks:** Git, GitHub, Django, VS Code, ETL Pipelines, Docker, Postman

**Other Skills:** Business Intelligence, KPI Development, Dashboard Automation, Root Cause Analysis, Process Automation

## Certifications & Leadership

### Tata Data Visualization Certificate

2025

Forage

- Built 4 comprehensive Power BI dashboards using real-world data to deliver CXO-level business insights.
- Developed expertise in advanced data visualization techniques and executive reporting.

### National Service Scheme (NSS)

2022 – 2024

Volunteer Leader

- Led 3+ community donation drives by collaborating with cross-functional teams across event planning.
- Coordinated volunteer activities and managed project timelines for social impact initiatives.