

B Pavan Kumar Reddy

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EDUCATION

Sri Siddhartha Institute of Technology

Electronics and Telecommunication

Tumkur, Karanataka

2021 - 2025

Narayana PU College

Science - PCMC

Bengaluru, Karanataka

2019 - 2021

TECHNICAL SKILLS

Programming Languages: Python, C++, C, SQL

Tools: GitHub, MS Excel, Power BI, VS Code, MATLAB, MS Office

Analytical Abilities: Data Cleaning, Insight Generation, Descriptive Statistics, Exploratory Data Analysis (EDA)

WORK EXPERIENCE

Manufacturing Quality - Intern

Bosch (RBAI), Bengaluru, India

Jul 2025 - present

- Developed and deployed Power BI dashboards for Verification station, ICT and IMT stations, and 4-wheeler Scrap Dump, enabling real-time monitoring for Manufacturing Quality and Production teams.
- Conducted failure analysis and root cause identification of PCB and component defects, applying Pareto and RCA techniques to highlight top failure drivers.
- Accelerated failure detection by **20%** through implementing real-time Power BI dashboards, enabling Quality and Production Management to address top failure drivers across the ABS production line.
- Designed interactive Power BI dashboard to visualize key quality metrics, demonstrating advanced knowledge of Power BI and enabling effective data-driven decision-making for operational excellence

Artificial Intelligence(AI) - Intern

TechSaksham, Bengaluru, India

Nov 2024 - Dec 2024

- Constructed a Python-based **Chatbot** utilizing NLP and NLTK, delivering a **95%** accuracy rate in intent recognition and slashing customer wait times by **60%** through automated responses.
- Deployed Named Entity Recognition (NER) and Natural Language Processing (NLP) techniques, achieving **95% accuracy** in intent recognition for a Python-based chatbot, improved efficiency.
- Integrated **conversation history and context-aware responses** into the chatbot, improving user engagement by **40%** and boosting automation efficiency, resulting in a **25%** reduction in average resolution time.

PROJECTS

Automotive ABS Verification Station – Failure Trend Dashboard :

Developed an interactive Power BI dashboard by extracting and cleaning error data from Error Pareto and OS.NET protocols using Excel (VLOOKUP, duplicate removal) and Power Query. Automated data refresh, enabling real-time monitoring of failure events, reducing manual reporting by **40%**, and improving defect root cause identification by **25%**.

Sales Dashboard for Regional Performance

Designed and implemented a Sales Dashboard using MS Excel and Power BI, integrating regional datasets to deliver real-time performance insights. Leveraged data visualization and DAX measures to enhance reporting accuracy and empower management with data-driven decision-making.

ACHIEVEMENTS

- Achieved a **Certificate of Excellence** at ROBOVEDA'23 in the "Cozmo Clench" robotics competition at SNIST
- Captained** a team in the Youngsters Kabaddi League 2021 and secured **runners-up** position out of 32 teams

POSTITION OF RESPONSIBILITIES

- Coordinated annual sports-2024 at the college sports festival, attracting over **500+** participants,including staff.
- Successfully managed and allocated a budget of **42,000rs** by leveraging advanced **Excel and financial management** skills to ensure smooth execution of the Branch fest event.