

Makwana Dhyey Rajendrabhai

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IIT Bhubaneswar

Electrical Engineering

Pre-Final Year Undergraduate

Education

Indian Institute Of Technology

Bachelor of Technology in Electrical Engineering

CGPA: 6.96

2022 - 2026

Experience

WAGO India

Intern at WAGO India

(December 2024 - January 2025)

- Developed a machine learning model to predict machine breakdowns with 0.6 accuracy with RMSE of 0.7, enabling the team to optimize maintenance schedules and reduce potential downtime.
- Contributed insights for a new project focused on energy generation through pressure-based systems, offering innovative solutions to improve energy efficiency.
- Acquired hands-on experience with industrial systems, including electric panels, BMS networks (DALI, EMS), CNC machines, HVAC systems, relays, and various electronic components, along with learning key aspects of machine automation processes.

Projects

Hybrid NLP Log Classification System

Machine Learning, DevOps

- Developed a log classification framework using Regex, ML (Logistic Regression + Sentence Transformers), and LLMs.
- Built a REST API using FastAPI to classify logs from CSV files; containerized the service using Docker.
- Used BERT embeddings for improved accuracy and Groq's LLM API for handling complex logs.
- Automated log processing and structured output generation for DevOps workflows.
- Tech Stack: Python, FastAPI, Pandas, Scikit-learn, Sentence-Transformers, Joblib, Regex, Groq API, Docker.

Equity Research Tool (News Research Chatbot)

LLM, Streamlit

- Built a web-based equity research tool using LangChain and Streamlit to analyze, summarize, and query article content via an LLM.
- Designed an interactive UI and enabled secure model and article data storage using Pickle.
- Automated financial research processes and provided actionable insights for end-users.

Technical Skills

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

Database: PostgreSQL, MS Excel

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow

Tools/Platforms: Git, Matlab, AutoCAD, PyCharm, FastAPI, Streamlit, Docker

Concepts: Data Pipelines, DevOps Basics, CI/CD (Basic), Data Structures Algorithms

Certifications

- Introduction to data analysis from Google on Coursera.
- Build Neural Networks in python on Udemy.
- Certificate of completion of project based on data analytics and visualization job simulation by Accenture.
- Certificate of completion of PowerBI workshop conducted by be10X.
- Certificate of completion of mastering Product Management conducted by IIT Bhubaneshwar's finance society.
- Certificate of completion of Data Analytics and Visualization Job Simulation By Accenture

Positions of Responsibility

Alma Fiesta - Socio-cultural Fest

Member, Sponsorship Team

- Developed strong communication and networking skills by securing partnerships with diverse organizations.
- Cultivated and maintained sponsor relationships, contributing to the fest's financial success.

Product Management Club

Member

- Participated in ideation, market analysis, and product development workshops.
- Collaborated with peers to conceptualize and prototype solutions.