

# Neha Parepalli

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Eligible to Work in Germany

## PROFILE

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AI and Data Engineering professional with experience building GenAI workflows, ETL pipelines, data platforms, and AI applications using Python, FastAPI, Docker, SQL, RAG, and cloud technologies. Interested in AI engineering, infrastructure intelligence, and production AI workflows.

## SKILLS

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**Data Engineering:** Python, SQL, PySpark, Databricks, Airflow, ETL/ELT, Data Modeling

**Generative AI:** LLMs, RAG, LangChain, Ollama, ChromaDB, Prompt Engineering, OCR

**Backend & Apps:** FastAPI, REST APIs, Docker, React, Vite, GitHub Actions, CI/CD

**Cloud & Analytics:** Azure, Pandas, NumPy, Workflow Automation, Root Cause Analysis

**Data Platforms:** dbt, DuckDB, Structured Streaming, Parquet

## PROFESSIONAL EXPERIENCE

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### ITERGO Informationstechnologie GmbH

09/2025 – 03/2026

*Working Student | Generative AI*

Düsseldorf, Germany

- Built **30+ GenAI workflows** using enterprise data sources and ERGO GPT.
- Processed and validated **80+ datasets** supporting AI-driven business operations.
- Improved process efficiency by **30%** through workflow automation and testing.

### ITERGO Informationstechnologie GmbH

03/2025 – 08/2025

*AI Intern | Prompt Engineer*

Düsseldorf, Germany

- Developed datasets for **20+ AI use cases** supporting business operations.
- Optimized prompt and data workflows, improving output consistency across validation cycles.
- Automated testing workflows, reducing validation effort by **50%**.

### Accenture Services Private Limited

09/2021 – 08/2023

*Data Engineering Analyst | Client: Linde PLC, Germany*

Mumbai, India

- Developed Python, SQL and ETL pipelines processing **1M+ records/month**.
- Built reporting datasets and integrations, reducing operational effort by **25%**.
- Implemented data quality validations across enterprise data pipelines.

## PROJECTS

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### AI Incident Copilot – GenAI Incident Intelligence Platform

[GitHub]

- Built a **GenAI incident platform** using **FastAPI, Ollama, ChromaDB, Docker, and RAG**.
- Developed **AI-assisted RCA workflows** for infrastructure incidents.
- Generated **structured remediation reports** using local LLM inference.

### Document Intelligence Data Platform

[GitHub]

- Built automated **data extraction pipelines** using **OCR and Python**.
- Implemented validation workflows for **structured data quality checks**.
- Developed **FastAPI services** for scalable document processing.

## EDUCATION

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### Darmstadt University of Applied Sciences

09/2023 – 03/2026

*M.Sc. Electrical Engineering & Information Technology*

Darmstadt, Germany

### St. Francis Institute of Technology

08/2017 – 06/2021

*B.E. Electronics & Telecommunication Engineering | CGPA: 8.61/10*

Mumbai, India

## LANGUAGES

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German (B1), English (C2), Telugu (Native), Hindi