

VELAKALA DURGA PRASAD

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OBJECTIVE

Results-driven and detail-oriented **AI & Data ENGINEER** with strong skills in **Machine Learning, NLP, and RAG-based chatbot development**. Passionate about leveraging **data analytics and AI technologies** to drive intelligent automation, enhance decision-making, and deliver scalable, real-world solutions in a dynamic, growth-focused environment

TECHNICAL SKILLS

- **AI&ML:** LangChain, Transformers(Hugging Face), BERT, Tokenization, Scikit-learn, Spacy, A2A, ADK
- **Programming Languages:** Python, Html and css (Basics)
- **Data Handling & Visuvalization:** Pandas, Power BI, NumPy, Seaborn, Matplotlib, Pydantic
- **Tools and Platforms:** TensorFlow, Streamlit, Git, GitHub, VS Code, Jupyter notebook
- **Databases:** SQL, Weaviate

INTERNSHIP EXPLERIENCE

BCOMMUNE

Jun 2025 - Sep 2025

Bcommune – AI-Based Business Community Platform

AI INTERN

- Built a web platform where users can **connect, share, and manage business content easily**.
- Used **FastAPI (backend)** and **React (frontend)** to make the app fast and user-friendly
- Added **AI features** for smart recommendations and real-time updates to improve user experience.

PROJECTS

AI RAG Chatbot (Retrieval-Augmented Generation Assistant)

- Developed an **LLM-powered chatbot** using **RAG architecture** integrating vector databases for context-aware responses.
- Designed **modular multi-agent system** with domain-specific agents (Health, Sports, Discovery) using **Python & FastAPI**.
- Implemented **Weaviate-based retrieval pipeline** and orchestration logic for intelligent, real-world question answering.

AI-Powered Resume Screening With BERT

- Developed an AI-based resume screening tool using BERT to match resumes with job descriptions semantically.
- Utilized Python and Google Colab for model training, data preprocessing, and evaluation.
- Aimed to streamline the recruitment process by automating resume shortlisting with high accuracy and relevance.

Heart Disease Data Analysis

- Analyzed heart disease datasets to identify key factors and patterns influencing patient health outcomes.
- Used Python, pandas, and matplotlib to process data and visualize correlations between health metrics and disease risk.
- Built machine learning models with scikit-learn to predict the likelihood of heart disease based on patient data.

EDUCATION

Pragati Engineering Engineering

Aug 2022 - Apr 2025

Bachelor of Technology, Electronics and communication engineering

- **GPA:** 7.8

Sir Cattamanchi Ramalinga Reddy Polytechnic College

Aug 2019 - May 2022

Diploma, Electronics and Communication Engineering

- **GPA:** 8.3

ZPH School

Jun 2018 - Jun 2019

Secondary School Certificate

- **GPA:** 9.0

CERTIFICATIONS

- **Database Management Systems Certification:**National Programme on Technology Enhanced Learning
- **Python Certification:**Scaler
- **Power Bi For Beginners:**SimpleLearn
- **SQL and Relational Databases 101 Certification:**Cognitive Class (IBM Developer Skills Network)