

# 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 & Visualization:** Pandas, Power BI, NumPy, Seaborn, Matplotlib, Pydantic
- **Tools and Platforms:** TensorFlow, Streamlit, Git, GitHub, VS Code, Jupyter notebook
- **Databases:** SQL, Weaviate

## INTERNSHIP EXPERIENCE

### BCOMMUNE

*Bcommune – AI-Based Business Community Platform*

**Jun 2025 - Sep 2025**

*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

*Bachelor of Technology, Electronics and communication engineering*

**Aug 2022 - Apr 2025**

- **GPA:** 7.8

### Sir Cattamanchi Ramalinga Reddy Polytechnic College

*Diploma, Electronics and Communication Engineering*

**Aug 2019 - May 2022**

- **GPA:** 8.3

### ZPH School

*Secondary School Certificate*

**Jun 2018 - Jun 2019**

- **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)