

# Balaga Bala Krishna

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## EDUCATION

### VIT BHOPAL UNIVERSITY

Bachelor of Engineering - Computer Science and Engineering(Cloud Computing& Automation)

Bhopal, IND

Expected May 2026

**Cumulative GPA: 8.57/10**

### Sri Chaitanya Junior College (Class 12)

Telangana, IND

Math, Physics, Chemistry | **Percentage: 90.6%**

Jul, 2020 – Mar, 2022

### Sri Chaitanya High School (Class 10)

Telangana, IND

Secondary School | **10.0 CGPA**

Jun, 2019 – Mar, 2020

## UNIVERSITY PROJECTS

### RankAI – Multi-LLM Response Comparison Tool

Aug, 2025- present

Team Project | Role: Team Lead, Backend Developer(Flask), API Integration & Prompt Engineer | Tech Stack: Flask, React, API's, SQL Lite, JavaScript, CSS

- Designed and developed a Flask-based REST API backend to orchestrate parallel requests across multiple LLMs (GPT-4, Gemini, Cohere, DeepSeek), enabling real-time side-by-side comparison of model responses.
- Implemented concurrent execution and fault-tolerant API handling using threading, timeouts, and fallback logic, ensuring high availability and reliable response delivery despite third-party API latency or failures.
- Built a weighted scoring and ranking engine to evaluate model outputs based on accuracy, relevance, and coherence, and persisted performance metrics using SQLite and SQL queries, enabling historical analysis and data-driven model selection.

### Intelligent Code Snippet Search with Gemini AI Integration

Jan, 2025 – Mar 2025

Personal Project | Tech Stack: Python, FAISS- NLP, Google Gemini AI API, Streamlit, HTML, CSS

- Designed and implemented a scalable semantic code search system using Sentence Transformers and FAISS (IndexIVFFlat), enabling meaning-based retrieval of code snippets beyond keyword matching and significantly improving search accuracy and retrieval performance.
- Architected a modular dual-pipeline system separating deterministic semantic retrieval from generative AI workflows, ensuring reliable search results while enabling AI-assisted code explanation, debugging, translation, and generation.
- Integrated Google Gemini API with custom prompt engineering and delivered a production-ready Streamlit application, featuring dynamic action selection, efficient backend orchestration, and structured JSON mappings to provide a seamless, end-to-end developer experience.

### Blinkit E-Commerce Performance Analysis & Optimization

Oct, 2024 - Dec 2024

Personal Project | Tech Stack: Excel, Python, Streamlit, Power BI

- Led end-to-end data cleaning and transformation of large-scale e-commerce datasets using Python (Pandas) and Excel, ensuring data quality, consistency, and accuracy to enable reliable KPI reporting and business decision-making.
- Designed and deployed executive-level analytics dashboards using Streamlit and Power BI, delivering real-time insights on order volume, customer health, delivery performance, average ratings, and top-selling categories, enhancing stakeholder visibility and operational performance tracking.
- Developed a time-series sales forecasting model using Facebook Prophet, forecasting demand for the next 8 months with ~85% R<sup>2</sup> accuracy and 5.2% MAPE, enabling data-driven decisions for inventory planning, workforce optimization, and revenue forecasting.

## ACTIVITIES

### CERTIFICATIONS

- AWS Solutions Architect (Ethnus) [Certificate](#)
- Project Management Skills For Leaders (Linkedin) [Certificate](#)
- System Administration By Microsoft And Linkedin (Linkedin) [Certificate](#)

### EXTRACURRICULAR / Competitive Programming

- Technical Blogger | Medium.com – Wrote articles on AI, programming languages, and tech industry trends.
- Event Management Team Member | VIT Bhopal AI Club
- Content Writer | VIT Bhopal Data Science Club
- TCS CodeVita Season XIII (Round 1) – Global Rank ~1051

## ADDITIONAL

### Technical Skills

**Programming & Query Languages:** Python, SQL, HTML, CSS.

**Frameworks & Libraries:** Flask, Streamlit, Pandas, NumPy, Matplotlib, FAISS, Sentence Transformers.

**Tools & Platforms:** MS-EXCEL, Microsoft Office, Time Series Forecasting (Prophet), Power BI, Git, GitHub, AWS, GCP.

**CS Fundamentals:** Data Structures & Algorithms, Operating Systems, Computer Networks, DBMS, Software Development Life Cycle, Object-Oriented Programming, Cloud Computing, Cloud Security.

**Soft Skills:** Communication, Team Collaboration, Time Management, Adaptability, Stakeholder Communication, Documentation.