# Balaga Bala Krishna

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## EDUCATION

**VIT BHOPAL UNIVERSITY**                                                                              Bhopal, IND
Bachelor of Engineering                                                                       Expected May 2026
Computer Science and Engineering (Cloud Computing & Automation)
Cumulative GPA: 8.57/10
Relevant Coursework: Cloud Computing,Software Engineering, Operating Systems, Algorithms, Data Structures,CN, DBMS
**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

**Intelligent Code Snippet Search with Gemini AI Integration**                              Jan,2025 -Present

**Personal Project | Tech Stack: Python, TF-IDF, NLP, Google Gemini AI API, Streamlit**

- Designed and deployed an AI-powered code search engine on **Streamlit**, indexing **1,000+ JSON-based code snippets** across multiple domains (web dev, ML, system design).
- Integrated **Gemini AI** to enable advanced functionality like **code explanation, debugging suggestions**, and **natural language search**, enhancing developer productivity.
- Implemented **semantic search with NLP and TF-IDF**, improving snippet relevance; optimized backend for fast, scalable retrieval performance.

**Blinkit E-Commerce Performance Analysis & Optimization**                           Oct,2024 **-** Dec 2024
**Personal Project | Tech Stack: Python, Gradient Boosting Regressor, Streamlit, Power BI**

- Developed and deployed a **Streamlit dashboard** that provides a full executive summary: **order volume, customer health, delivery stats, average rating, and top-selling categories**.
- Built a **Gradient Boosting model** to forecast sales for 8 months, achieving **~90% R² accuracy** and **4.2% MAPE**; enabled data-driven decisions on inventory and staffing.
- Delivered deep analytics including **category-wise performance**, **customer segmentation**, and **delivery insights**; also built a **Power BI dashboard** for interactive stakeholder presentations.

## ACTIVITIES

### CERTIFICATIONS
- AWS Solutions Architect (Ethnus)
- MERN Full Stack Certification Program (Ethnus)

### EXTRACURRICULAR
- **Technical Blogger | Medium.com** – Wrote articles on AI, programming languages, and tech industry trends
- **Content Writer | VIT Bhopal Data Science Club**

## ADDITIONAL

**Technical Skills**:

**Programming Languages**: Python ,Java, SQL, HTML, CSS.

**Frameworks & Tools**: Streamlit ,Power BI ,Excel, AWS ,Git-Hub.

**Libraries**: Pandas, NumPy, seaborn , scikit learn and  TF-IDF (NLP**)**.

**Concepts:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Cloud Computing, Database Management Systems.

**Soft Skills :** Team Collaboration, Adaptability, Attention to Detail

**Languages**: English, Hindi, Telugu.

**Hobbies**:  Stock market analysis , Chess, Cricket.