

# VASAVI BOKKISAM

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## SUMMARY

Machine Learning & Data Science professional skilled in Python, SQL, and Scikit-learn, with expertise in LLMs and RAG systems. Experienced in building QA chatbots, recommendation engines, predictive models, and data processing pipelines. Strong in feature engineering, model evaluation, statistical analysis, and workflow optimization. Passionate about deriving actionable insights from data and developing scalable ML solutions to solve real-world problems.

## SKILLS

**Programming:** Python, SQL

**ML:** Classification, Clustering, Regression, Feature Engineering, Model Evaluation

**Libraries:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

**Tools:** LangChain, Streamlit, Chroma DB, Git

## EXPERIENCE – INTERNSHIP

### Tata Consultancy Services (TCS) — GenAI Intern (Jan 2025 – May 2025)

- Built components of a RAG-based QA chatbot using Python, LangChain, and Chroma DB.
- Developed retrieval pipelines improving search accuracy and embedding quality.
- Contributed to integration testing, documentation, and workflow validation activities.
- Worked with senior engineers on vector storage strategies, modular LLM pipelines, and prompt workflows.

## PROJECTS

### QA Chatbot using LangChain, Groq & Chroma DB

- Implemented an AI-powered document-based Q&A system with real-time ingestion pipelines.
- Optimized chunk size, embeddings, and indexing to improve retrieval accuracy by 25%.
- Designed modular components: loaders, embedder, retriever, evaluator.

### Movie Recommendation System

- Built a content-based recommendation engine using TF-IDF and cosine similarity.
- Automated ranking logic for dynamic user queries.
- Performed preprocessing, feature engineering, and accuracy tuning.

## EDUCATION

### B.Tech – Computer Science & Engineering (Data Science)

R.V.R. & J.C. College of Engineering, Guntur — Graduated: June 2025

## CERTIFICATIONS

- Artificial Intelligence
- Programming with Python — InternShala
- Data Analytics — AICTE
- Data Visualization — TCS Forage
- Prompt Engineering