



# REENA KOWSAR SHAIK

Entry-Level AI/ML Engineer

## Contact

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## About Me

Recent B. Tech graduate in Computer Science and Engineering with a solid foundation in Python and AI/ML, experienced in developing AI-powered applications and optimizing machine learning models. Demonstrates strong analytical and problem-solving skills, effective communication, and a willingness to learn, seeking to contribute as an AI/ML Engineer.

## Skills

- Python
- AI-powered applications
- willingness to learn
- Machine Learning
- Deep Learning
- CNNs
- NLP
- Generative AI (Gemini)
- Streamlit
- Scikit-learn
- OpenCV
- Git
- Jupyter
- Google Colab
- Tkinter
- HTML
- CSS
- JavaScript
- REST APIs
- SQL
- LLMs
- RAG

## Internships

- **AIML Intern** Jun 2025 — Jul 2025  
IBM SkillsBuild
  - Enhanced model performance by 20% through data preprocessing and machine learning techniques using Python and Scikit-learn, showcasing strong analytical and problem-solving abilities.
  - Improved evaluation metrics by 20% through hands-on experience in model optimization and AI/ML workflows, demonstrating strong analytical skills.
  - Collaborated with cross-functional teams to improve processes and ensure timely delivery of work, highlighting effective communication and client-centricity.
- **Python Intern** Jan 2025 — Mar 2025  
VaultofCodes
  - Developed and refined Python scripts for automation and data processing, demonstrating strong programming fundamentals and attention to detail.
  - Enhanced communication and teamwork abilities while collaborating on projects and applying software development methodologies, reflecting strong planning skills.

## Education

- **B. Tech, Computer Science and Engineering (AI & ML)** 2022 — 2026  
Bapatla Engineering College · CGPA: 9.1
- **Intermediate (Class XII)** 2022  
Narayana Junior College · Percentage: 96%
- **SSC (Class X)** 2020  
Z.P. High School · Percentage: 96%

## Projects

- **Smart Memory Vault — AI-Powered Multimodal Knowledge System** <https://smart-memory-vault.streamlit.app/>
  - Developed an AI-powered multimodal knowledge management system using Python and Streamlit for storing and retrieving information.
  - Implemented NLP, machine learning, and Tesseract OCR for processing text and image-based content.
  - Integrated PostgreSQL with SQLAlchemy, Plotly visualizations, and Docker for database management, analytics, and deployment.
- **Fusion-Based Video Summarization for YouTube Content Analysis**
  - Built a multimodal AI system using TextRank, TF-IDF, PCA, and OpenCV for transcript analysis and key frame extraction, reducing video review time by approximately 70%.
  - Integrated Google Gemini AI for abstractive summarization and developed a Streamlit dashboard with analytics, timestamp navigation, and PostgreSQL user management.
  - Integrated YouTube Data API and transcription pipelines to generate structured video summaries; tested on 50+ videos with an average summarization accuracy of 88%.

## Certifications

- Python Essentials – Cisco
- AI Fundamentals – IBM SkillsBuild
- Introduction to AI & ML Fundamentals – Infosys Springboard