KRISHNA CHAURASIA

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**Professional Summary**

Results-driven **Machine Learning enthusiast** with a strong foundation in **data analysis, deep learning, and large language models (LLMs)**. Pursuing a **Bachelor’s degree in Artificial Intelligence & Machine Learning** at SIES GST, with hands-on experience in building data-driven applications and leading collaborative projects.

**Technical Skills**

* **Programming Languages:**Python (Advanced), SQL (Proficient), R (Intermediate), C (Intermediate)
* **Machine Learning & AI:**Natural Language Processing, Computer Vision (OpenCV), ML Algorithms (Classification, Regression), Deep Learning Frameworks (TensorFlow, PyTorch), Large Language Models (Gemini APIs)
* **Data Science & Analytics:**Data Manipulation (Pandas, NumPy), Data Visualization (Power BI, Matplotlib, Seaborn, Plotly, ggplot2), Statistical Analysis, Database Management (PostgreSQL, MS SQL Server, MongoDB)
* **Web Development & APIs:**Backend Frameworks (FastAPI, Django, Flask), API Development, Database Integration
* **Specialized Technologies:**Text-to-Speech, Speech Recognition, Image Processing

**Education**

**SIES Graduate School of Technology, Mumbai University**

* Bachelor of Engineering in Artificial Intelligence & Machine Learning (2023-2027)
* Average CGPA: 8.42

**Work Experience**

***Automachina* – Remote** *Machine Learning Intern (July 2025 – Present)*

* Contributing to a confidential NLP project involving Large Language Models (LLMs) for a healthcare client.
* Focused on fine-tuning transformer-based models and optimizing performance for domain-specific language tasks.
* Conducting evaluation, benchmarking, and literature review to support model improvements under domain constraints.
* Working in a cross-functional team to address challenges in applying LLMs to real-world healthcare-related data.

**Key Projects**

* **Conversational AI News Anchor –** *Python, NLP, Text-to-Speech, Video Synthesis, Gemini APIs*

Built a multimodal AI anchor that delivers news and answers user questions via text, voice, or video. Integrated NLP for natural language understanding and TTS/video rendering for realistic delivery, creating a human-like interaction experience.

* **AI-Powered Sales Query Interface –** *Python, SQL, LLM APIs*

Created an NLP-powered tool that interprets user queries in natural language and converts them into SQL to fetch real-time business insights from a structured sales database. Enhanced accessibility to data for non-technical users.

* **Speak Sense –** *Python, SpeechRecognition, Google Translate API*

Created an interactive voice assistant in Python with speech recognition, text-to-speech, sentiment analysis, and real-time translation. It adapts speech tone based on sentiment and supports multilingual translation for a personalized user experience.

* **Blood Group Detection Using Fingerprint –** *Python, OpenCV, Image Processing, Machine Learning*

Developed a biometric system that predicts an individual's blood group based on fingerprint patterns using image preprocessing and ML classification. Streamlines blood type identification in resource-constrained medical scenarios.

**Certifications**

* [**Computer Vision –** Udemy (2025)](https://drive.google.com/file/d/1eWPHOZmgL14ufxE9PNuIG8k701XbPuAL/view?usp=sharing)

*OpenCV, Image Processing, Object Detection, Face Recognition, Video Analysis, Deep Learning Integration*

* [**R programming for Data Science -** Udemy (2025)](https://drive.google.com/file/d/1Fg6eHNPDxi0i7L8Tgw3TgArv6uEum8Jb/view?usp=drive_link)

*Statistical Analysis, Matrix Operations, Data Visualization, Statistical Distributions*

* [**MS SQL DBA Course -** Udemy (2025)](https://drive.google.com/file/d/1Gx8XlX2P0k3H6Ti6VkTewSk1CixSF-Xg/view?usp=sharing)

*Database Administration, Query Optimization, Backup & Recovery, Performance Tuning, T-SQL Programming*

* [**Machine Learning Specialisation –** Udemy (2024](https://drive.google.com/file/d/1pJTylxIUuaKR6n6LcECvIAkYr9TD-OKj/view?usp=drive_link))

*Supervised/Unsupervised Learning, Neural Networks, Model Evaluation, scikit-learn, TensorFlow*

* [**Natural Language Processing –** Udemy (2024](https://drive.google.com/file/d/17Zv4jFw2PxGHTlVCId4UZqA_zMKeobCl/view?usp=sharing))

*Text Processing, Sentiment Analysis, NLTK, spaCy, Tokenization, Named Entity Recognition*

**Leadership & Professional Development**

* **Led multiple projects**, ensuring seamless execution and collaboration.
* Actively contribute to discussions and knowledge sharing in academic and technical settings.
* **Multi-tasker**, balancing academic work, projects, and leadership roles.
* **Actively participated** in technical workshops to enhance Python, SQL, and ML expertise.