

KRISHNA CHAURASIA

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Professional Summary

Results-driven **Machine Learning enthusiast** with a strong foundation in **data analysis, predictive modeling, and software development**. Currently pursuing a **Bachelor's degree in Artificial Intelligence & Machine Learning** at SIES GST (Mumbai University), with hands-on experience in building **data-driven applications**. Adept at **problem-solving, analytical thinking, and leadership**, with a history of leading projects and collaborating in fast-paced environments.

Education

SIES Graduate School of Technology, Mumbai University

- Bachelor of Engineering in Artificial Intelligence & Machine Learning (2023-2027)
- Current CGPA: 8.40

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 (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

Work Experience

Machine Learning Intern

Automachina – Remote | 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.
- **Heart Disease Prediction** – *Python, Scikit-learn, Pandas, NumPy*
Developed a machine learning application to predict heart disease likelihood using user-provided health metrics, achieving an accuracy of 86% through robust feature engineering and evaluation.
- **Co-Po Mapping Tool** – *Python, Pandas, Excel Automation*
Designed a Python-based tool for educators to evaluate student performance using Excel data, streamlining the computation of attainment levels and enhancing academic assessment workflows.

Certifications

- Machine Learning Specialisation** – Udemy (2024)
Supervised/Unsupervised Learning, Neural Networks, Model Evaluation, scikit-learn, TensorFlow
- Natural Language Processing** – Udemy (2024)
Text Processing, Sentiment Analysis, NLTK, spaCy, Tokenization, Named Entity Recognition
- Computer Vision** – Udemy (2025)
OpenCV, Image Processing, Object Detection, Face Recognition, Video Analysis, Deep Learning Integration
- R programming for Data Science** - Udemy (2025)
Statistical Analysis, Matrix Operations, Data Visualization, Statistical Distributions
- MS SQL DBA Course** - Udemy (2025)
Database Administration, Query Optimization, Backup & Recovery, Performance Tuning, T-SQL Programming

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.