

# SONI

[sonikumrai54@gmail.com](mailto:sonikumrai54@gmail.com) | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

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### Sharda University

Master of Science - Data Science and Analytics | CGPA: 8.978

Gautam Buddha Nagar, India

August 2023 - May 2025

### MGKVP University

Bachelor of Science - Mathematics | Percentage: 73%

Varanasi, India

July 2019 - August 2022

## EXPERIENCE

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### Python Developer Intern

Inoday Consultancy Pvt. Ltd., Noida, India

Aug 2025 - Sept 2025

On-site

### Machine Learning Intern

Team Of Keys, Noida, Gautam Buddha Nagar, India

Apr 2025 - Jul 2025

On-site

### Data Science Intern

LearnNex, Tripura (West), India

Sep 2024 - Nov 2024

Remote

### Data Science Intern

Digisamaksh, Greater Noida, India

May 2024 - Jul 2024

On-site

### Data Science Intern

Oasis Infobyte, New Delhi, India

Apr 2024 - May 2024

Remote

### Mathematics Tutor

Qalp Educare, Varanasi, India

Oct 2022 - Aug 2023

On-site

## ACADEMIC PROJECTS

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### Research-Based Learning Project — Generative Models in Machine Learning

Sharda University

Conducted academic research on **GANs**, **VAEs**, and **Autoencoders** for image generation and reconstruction. Explored unsupervised feature learning applications in computer vision as part of Master's research project.

### Community Connect Project (SDG-8)

Sharda University

Led village surveys analyzing **100+ responses** using **SPSS** and statistical hypothesis testing. Generated actionable community development insights aligned with UN Sustainable Development Goals.

## PROJECTS

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### Sales Forecasting Chatbot — [Live App](#)

Built AI-powered chatbot using **Streamlit** and **OpenAI API** for real-time sales forecasting. Integrated statistical models with conversational AI to deliver predictive business insights through intuitive chat interface.

### RAG Pipeline Chatbot with Vector Database Integration

Engineered intelligent document processing system using **n8n automation**, **HuggingFace embeddings**, and **Pinecone vector database**. Achieved **75% improvement** in document accessibility through semantic search and real-time retrieval across cloud-stored files.

### AI-Powered Customer Support Automation System

Deployed end-to-end customer service workflow using **n8n** and **Gmail** integration. Automated email parsing and

response generation with **LLMs**, reducing response time by **90%** while handling multiple concurrent requests without human intervention.

### **Autonomous Agent Development with n8n**

Created multi-functional autonomous agents integrating **OpenAI**, **Mistral**, **Apollo.io**, and **Google Cloud APIs**. Automated LinkedIn content creation, invoice processing, and built customer-facing chatbots with real-time data enrichment through web scraping and RAG pipelines.

### **Fine-Tuning LLaMA-2 Chat Model on Multilingual OCR Dataset**

Fine-tuned **LLaMA-2-7B-chat** on multilingual manuscript data using **LoRA**, **QLoRA**, and **PEFT**. Processed OCR-extracted text with **PyMuPDF** into structured instruction format using **Hugging Face Transformers** for efficient memory-optimized training.

### **Multimodal Emotion Recognition System**

Developed real-time emotion recognition integrating facial (**DeepFace**), speech (**SpeechRecognition**), and text analysis (**Transformers**). Built interactive **Streamlit UI** with **Plotly** visualizations and implemented contradiction detection across modalities for sentiment fusion.

### **Football Player Tracking System**

Created real-time player detection and tracking using **YOLOv5/YOLOv8** and **Dense Inverse Search Optical Flow**. Generated tactical insights and performance heatmaps using custom **Roboflow** datasets, **OpenCV**, and **Matplotlib**.

## **TECHNICAL STRENGTHS**

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**MLOps & Deployment:** FastAPI, Streamlit, MLflow, DVC, Docker, Kubernetes, CI/CD (GitHub Actions), Prometheus/Grafana

**AI/ML Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn, Hugging Face Transformers, DeepFace

**LLMs & Fine-Tuning:** OpenAI API, Claude API, Groq LLaMA API, LoRA, PEFT, LLaMA 2, RAG Pipelines

**Computer Vision:** OpenCV, YOLOv5/v8, Dense Inverse Search (DIS), Haar Cascade, CNNs

**NLP & OCR:** Tesseract, Google Cloud Vision API, SpeechRecognition, PyMuPDF, Text Processing

**Workflow Automation:** n8n (Advanced), API Orchestration, Multi-step Automation, Webhook Management

**Programming & Data:** Python, R, C, SPSS, Pandas, NumPy, Matplotlib, Seaborn, Statistical Analysis

**Cloud & Big Data:** AWS, Google Cloud Platform (Vision, Translation), Apache Spark

**Vector Databases & APIs:** Pinecone, OpenRouter, Apollo.io, Tavily, yFinance

**Web Development:** HTML/CSS/JavaScript, Streamlit, FastAPI, Tkinter

## **CERTIFICATIONS**

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- Data Structures and Algorithms in Python (GeeksForGeeks)- Ongoing
- Learn Python Programming - Beginner to Master (Udemy)
- Building Language Models on AWS (AWS)
- Big Data Hadoop and Spark Developer (Simplilearn)
- MongoDB Developer and Administrator (Simplilearn)

## **CURRENTLY LEARNING**

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**Self-Study & Online Learning:** MLOps (End-to-End Pipelines, Model Serving, CI/CD, AWS/GCP Deployment), LangChain & RAG Pipelines, Prompt Engineering for Generative AI, Experiment Tracking with MLflow