

Data Science graduate with experience in data analysis, AI, machine learning, computer vision, and operations management. Skilled in Python, R, SQL, and Excel to solve real-world problems, optimize processes, and support data-driven decisions. Strong communicator, team collaborator, and problem solver.

SKILLS

Languages:	Python, R, SQL, Java, PHP
Libraries/Frameworks:	PyTorch, TensorFlow, Scikit-learn, OpenCV, Matplotlib, Pandas, Numpy,
Tools & Platforms:	Jupyter Notebook, Colab, Git, RStudio, LaTeX, Markdown, Docker, AWS, Power BI, Flask, n8n
Domains:	Machine Learning, Deep Learning, Computer Vision, NLP, Generative AI

EXPERIENCE

Generative AI Intern Sep 2024 — Dec 2024	Kuality Soft, Gujranwala (On-site)
<ul style="list-style-type: none"><li>Developed and fine-tuned Large Language Models (LLMs) for domain-specific text generation using OpenAI API.</li><li>Built AI-powered summarization pipelines to convert lengthy documents and datasets into concise, actionable insights.</li><li>Designed prompt engineering strategies to improve model accuracy and relevance in responses.</li><li>Integrated Generative AI capabilities into internal tools for automated content creation and report generation.</li></ul>	

PROJECTS

Final Year Project — Zero-Shot Multimodal Video Anomaly Detection
<ul style="list-style-type: none"><li>Developed a <i>training-free</i> anomaly detection system combining <b>visual, audio, and language</b> cues using Vision-Language Models (VLMs), Audio-Language Models (ALMs), and Large Language Models (LLMs).</li><li>Designed and implemented caption alignment, filtering, and rationale evaluation for improved noise resilience and interpretability.</li><li>Achieved up to <b>3.66% accuracy improvement</b> on benchmark datasets (UCF-Crime, XD-Violence, ShanghaiTech, UCSD ped2).</li><li>Created a cloud/web-based interface for real-time monitoring and alerting.</li><li><b>Technologies:</b> Python, PyTorch, TensorFlow, OpenCV, Docker, Google Colab</li></ul>
LLM-Based RAG Callbot for Inbound and Outbound Calls
<ul style="list-style-type: none"><li>Designed and deployed a callbot leveraging <b>Large Language Models (LLMs)</b> with a <b>Retrieval-Augmented Generation (RAG)</b> pipeline for contextual and accurate responses.</li><li>Integrated <b>OpenAI APIs</b> with <b>Twilio Voice</b> to handle real-time inbound and outbound calls, enabling natural, human-like conversations.</li><li>Implemented dynamic knowledge retrieval from custom databases and documents to answer domain-specific queries.</li><li>Optimized for low-latency call handling and improved accuracy through prompt engineering and context filtering.</li><li><b>Technologies:</b> Python, OpenAI API, Twilio Voice API, FastAPI, LangChain, PostgreSQL, Docker.</li></ul>
LLM-Based Customer Support Chatbot
<ul style="list-style-type: none"><li>Developed an AI-powered chatbot using Large Language Models (LLMs) to handle customer queries in natural language.</li><li>Integrated OpenAI GPT API for contextual and dynamic responses.</li><li>Implemented conversation history tracking for better query resolution.</li><li>Deployed the system as a web application with Flask for real-time user interaction.</li></ul>

EDUCATION

Bachelor of Science in Data Science, GIFT University, Gujranwala	2021 – 2025
FSC (Pre-Medical), KIPS College, Gujranwala	2019 – 2021

ACHIEVEMENTS & ACTIVITIES

Achieved <b>1st position</b> in 1 <sup>st</sup> , 3 <sup>rd</sup> , and 6 <sup>th</sup> semesters.	
Secured <b>1<sup>nd</sup> position</b> in the <i>Innovative 2.0 Final Year Project Competition</i> among four different universities.	
Completed <b>Exploratory Data Analysis for ML</b> by IBM	June 2025
Completed short course on <b>Fundamentals of Agents &amp; Development</b> by Hugging Face Agent Course	August 2025