



## EDUCATION

<b>Bachelor's in Technology</b> Mahatma Jyotiba Phule Rohilkhand University, Bareilly Computer Science and Information Technology — CGPA - 7.77	<b>2021–2025</b>
<b>Class XII ( PCMCs )</b> ST. Francis School Ramnagar, Varanasi	<b>2018–2020</b>

## EXPERIENCE

<b>Python Developer Intern, Abym Technology</b> • Developed <b>RAG-based AI applications</b> using <b>Python, LangChain</b> , and <b>LLMs</b> for context-aware conversations. • Implemented <b>RAG pipelines</b> using embeddings and <b>vector databases</b> for semantic search and dynamic context retrieval. • Managed <b>JSON/SQL-based data storage</b> to enhance chatbot context handling and workflow scalability.	<i>July 2025 – Present</i>
<b>Machine Learning Research Intern, IIT BHU</b> • Researched and implemented emerging <b>ML algorithms</b> in healthcare and UAV applications. • Analyzed research papers, derived insights, and transformed findings into working models. • Prepared technical documentation and presentations to summarize research results.	<i>June 2024 – July 2024</i>

## PROJECTS

<b>Medical Assistance Chatbot — GitHub</b> • Developed a <b>Conversational AI chatbot</b> for symptom triage using <b>Retrieval-Augmented Generation</b> and <b>Conversational Query Reformulation (CQR)</b> . • Integrated <b>AI Agents</b> for appointment scheduling, personalized health recommendations, and memory management. • Leveraged <b>Gemini LLM</b> with domain-specific prompts to enhance medical response precision and relevance.	<b>[RAG, LangChain, Gemini, HuggingFace, AI Agents]</b>
<b>SQL Database Chatbot — GitHub</b> • Built an <b>AI-powered assistant</b> that interprets natural language to generate and execute SQL queries using <b>LLMs</b> . • Enabled real-time data retrieval and <b>automatic chart generation</b> for analytics and decision-making dashboards. • Implemented speech-to-text and text-to-speech for multimodal user interaction.	<b>[Python, MySQL, LangChain, LLM, Data Visualization]</b>
<b>Solar Panel Fault Detection — GitHub</b> • Designed and trained a <b>deep learning model</b> using <b>transfer learning (VGG16)</b> for defect detection in solar panels via aerial imagery. • Optimized model through <b>data augmentation, early stopping</b> , and fine-tuning, achieving 85.9% validation accuracy. • Applied <b>confusion matrix, precision, recall, and F1-score</b> for model performance evaluation.	<b>[TensorFlow, CNN, Transfer Learning, VGG16]</b>
<b>QR-Based Smart Attendance System — GitHub</b> • Developed a location-verified <b>QR attendance system</b> using <b>Flask, GPS APIs</b> , and <b>real-time database logging</b> . • Automated attendance tracking and reporting, improving workflow efficiency by over 25%.	<b>[JS, Flask, Python, QR Code, GPS]</b>

## CERTIFICATIONS

• Data Science Using Python – SWAYAM	• Training Programme on Generative AI
• Oracle Cloud Infrastructure (OCI) AI Foundations	• Data Analytics Virtual Internship – Deloitte
• SQL (Intermediate) – HackerRank	• Problem Solving – HackerRank

## TECHNICAL SKILLS

• <b>Language:</b> Python, C++, JavaScript
• <b>Data Tools:</b> MySQL, MongoDB, AWS, PowerBI, Excel
• <b>Library:</b> ReactJs, Flask, NumPy, Pandas, Scikit-learn, LangChain, HuggingFace
• <b>Concepts:</b> OOP, Data Structure, Database, SDLC, Supervised, Unsupervised Learning, RAG, GenAi, Prompting
• <b>Soft Skills:</b> Problem Solving, Presentation, Communication, Technical Writing