

# Vjaylakshman K

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## EXPERIENCE

<b>DevOps Engineer Intern</b> <i>SurveySparrow</i>	Nov 2025 – Present
<ul style="list-style-type: none"><li>Undergoing hands-on training in core DevOps concepts, tools, and workflows</li><li>Learning version control (Git), Linux basics, and scripting to build foundational skills</li><li>Exploring CI/CD, containerization, and cloud fundamentals under the guidance of the DevOps team</li></ul>	<i>Chennai</i>
<b>AI Engineer Intern</b> <i>Greatify</i>	Jun 2025 – Jul 2025
<ul style="list-style-type: none"><li>Applied supervised fine-tuning via OpenAI API, Vertex AI, HuggingFace, and LLaMA Factory</li><li>Fine-tuned quantized LLaMA 3 8B (4-bit, LoRA) for rubric-based answer evaluation</li><li>Developed and deployed Django + vLLM APIs for model inference</li></ul>	<i>Chennai</i>
<b>Database Designer Intern</b> <i>Nabhaas Cloud Consulting</i>	Aug 2024 – Nov 2024
<ul style="list-style-type: none"><li>Designed normalized Oracle 19c schema for 50K+ daily water usage records across 20 city zones</li><li>Collected, processed, and indexed datasets for faster queries on 20K+ record tables</li></ul>	<i>Chennai</i>

## EDUCATION

<b>B.S. Abdur Rahman Crescent Institute of Science and Technology</b> <i>Bachelor of Technology in Computer Science and Engineering</i>	Oct. 2022 – 2026
<b>Indian Institute of Technology Madras</b> <i>Bachelor of Science in Data Science and Applications</i>	Sep. 2022 – Present

## PROJECTS

<b>PDFChat – RAG-based PDF QA Web App</b>   <i>Python, Langchain, Streamlit</i>	Nov 2024
<ul style="list-style-type: none"><li>Developed a retrieval-augmented generation web app capable of querying 50+ page PDFs with high accuracy</li><li>Integrated Mistral 7B LLM with Cohere embeddings, enabling sub-2 second responses for 1K+ token queries</li><li>Designed an interactive Streamlit UI supporting multiple simultaneous queries with real-time feedback</li></ul>	
<b>Quiz Master Application</b>   <i>Python, Flask, SQLite (SQLAlchemy), JavaScript, ChartJS</i>	Mar 2025
<ul style="list-style-type: none"><li>Built a role-based quiz app with structured content management and secure user authentication</li><li>Implemented timed quizzes with auto-submit and real-time analytics using ChartJS</li></ul>	
<b>AI Evaluation API System</b>   <i>Django, Python, OpenAI, vLLM, Cloudflare</i>	Jul 2025
<ul style="list-style-type: none"><li>Developed a secure Django-based API with API key authentication, SHA256 request validation, and activity logging</li><li>Implemented dynamic subdomain routing with database switching to serve fine-tuned LLaMA 3 and GPT models</li><li>Created a Streamlit-based tester for model selection, live API queries, and response visualization via Cloudflare tunnels</li></ul>	
<b>LLaMA 3.1 8B QA Fine-tuning</b>   <i>Python, Unslloth, HuggingFace, bitsandbytes</i>	Jul 2025
<ul style="list-style-type: none"><li>Fine-tuned LLaMA 3.1 8B (4-bit LoRA) using Unslloth's optimized training pipeline on a custom QA-rubric dataset</li><li>Enhanced rubric-based answer evaluation accuracy and consistency, aligning closely with grading standards</li><li>Leveraged memory-efficient training to run on a single GPU without compromising performance</li></ul>	

## TECHNICAL SKILLS

<b>Languages:</b> Python, Java, C/C++, JavaScript, SQL, HTML/CSS, PHP
<b>Tools &amp; Technologies:</b> Git, Azure, AWS, Linux, VS Code, Hadoop, XAMPP, GCP, OpenAI
<b>Libraries &amp; Frameworks:</b> pandas, NumPy, scikit-learn, Langchain, Flask, PyQt, Chart.js, Langgraph, Huggingface, vLLM, LLaMaFactory, Django