

# VETRIVEL MAHESWARAN

Rochester, New York

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## PROFESSIONAL SUMMARY

Master's student in Information Technology & Analytics at RIT with internship experience in AI and ML Engineer and team coordinator. Experienced in developing data-driven and AI-powered solutions, collaborating across teams, and applying analytical approaches to deliver practical, efficient, and reliable outcomes.

## EDUCATION

<b>Master of Science in Information Technology and Analytics</b>   GPA: 4.0/4.0	<b>Jan 2025 - May 2026</b>
Rochester Institute of Technology	Rochester, New York
<b>Bachelor of Engineering in Computer Science and Engineering</b>   GPA: 8.9/10.0	<b>Nov 2020 - Apr 2024</b>
R.M.K. Engineering College	Chennai, India

## SKILLS

- Programming & Databases: Python, MySQL, MongoDB, HTML, CSS
- Data Analysis & Visualization: Python Libraries, R, Power BI, Tableau, Minitab, Excel
- AI & Machine Learning: Scikit-learn, TensorFlow, Keras, NLTK, LangChain, Streamlit, Generative AI, Prompt Engineering, LLM Integration, Retrieval-Augmented Generation (RAG)
- Development & Deployment: Flask, FastAPI, Streamlit, MCP Architecture, N8N
- Tools & Environments: VS Code, Git, GitHub, Jupyter Notebook, MS Office

## INTERSHIPS

<b>AI Engineer Intern   Artificial Intelligence Risk, Inc - Connecticut, NY</b>	<b>May 2025 - Aug 2025</b>
<ul style="list-style-type: none"><li>• Developed and deployed AI agents for client use cases in automation and retrieval-augmented reasoning</li><li>• Collaborated with and mentored junior teammates of 3 members on building AI Agents and deployment workflows</li><li>• Worked with AI solutions for finance and banking use cases, focusing on document classification and information retrieval to support risk assessment and compliance workflows</li></ul>	

<b>Data Science Intern   CodSoft - Chennai, India</b>	<b>July 2024 - Aug 2024</b>
<ul style="list-style-type: none"><li>• Built Tableau dashboards and Implemented SQL queries with stored procedures to support analytics-driven projects</li><li>• Leveraged Python libraries to implement real-world prediction use cases and improved efficiency through data-driven insights</li></ul>	

## PROJECTS

<b>Linkedin AI Agent</b>	<b>Jun 2025 - Aug 2025</b>
<ul style="list-style-type: none"><li>• Developed an automation agent to generate and publish LinkedIn content using OpenAI GPT-4o and LangChain within an MCP architecture.</li><li>• Implemented a FastAPI backend with LinkedIn REST API integration to deliver seamless, automated content posting.</li></ul>	

<b>NewsBot</b>	<b>May 2025 - Jun 2025</b>
<ul style="list-style-type: none"><li>• Built a retrieval-augmented generation (RAG) system that processes news articles and PDFs, performs semantic search using FAISS, and answers context-aware queries.</li><li>• Integrated Streamlit with LangChain and OpenAI GPT-4o to deliver explainable, evidence-grounded responses, achieving an average 67% citation coverage.</li></ul>	

<b>AI-Powered Resume Evaluator</b>	<b>Apr 2025 - May 2025</b>
<ul style="list-style-type: none"><li>• AI-driven NLP system using Google Gemini model to evaluate resume-job alignment through multimodal reasoning and prompt-driven analysis.</li><li>• Designed a Streamlit interface that provides real-time feedback based on semantic relevance and keyword-based scoring.</li></ul>	

<b>Ticket Management System</b>	<b>Feb 2025 - Mar 2025</b>
<ul style="list-style-type: none"><li>• Utilized Flask and MySQL to create a role-based ticket management system to submit and track service requests while responders managed and closed tickets with dynamic visibility.</li><li>• Employed session-based authentication and personalized dashboards to improve user interaction and streamline workflow tracking</li></ul>	

## CERTIFICATIONS

- Generative AI in Action - IBM
- ChatGPT Prompt Engineering for Developers - DeepLearningAI
- Database Management System - Infosys Springboard
- Python Basics for Data Science - IBM
- Google Cloud career readiness Associate Cloud Engineer track - Google

## ACHIEVEMENTS

- Aspiring Minds Computer Adaptive Test (AMCAT) Certifications, Jun 2023.
- National level E-Quiz on Core Java Programming, Nov 2022.
- Bronze Medal recognition on SkillRack, Sep 2022.