VETRIVEL MAHESWARAN
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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

Master of Science in Information Technology and Analytics | *GPA: 4.0/4.0*   **Jan 2025 - May 2026**
Rochester Institute of Technology   *Rochester, New York*

Bachelor of Engineering in Computer Science and Engineering | *GPA: 8.9/10.0*   **Nov 2020 - Apr 2024**
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

INTERNSHIPS

AI Engineer Intern | Artificial Intelligence Risk, Inc - Connecticut, NY   **May 2025 - Aug 2025**

- Developed and deployed AI agents for client use cases in automation and retrieval-augmented reasoning
- Collaborated with and mentored junior teammates of 3 members on building AI Agents and deployment workflows
- Worked with AI solutions for finance and banking use cases, focusing on document classification and information retrieval to support risk assessment and compliance workflows

Data Science Intern | CodSoft - Chennai, India   **July 2024 - Aug 2024**

- Built Tableau dashboards and Implemented SQL queries with stored procedures to support analytics-driven projects
- Leveraged Python libraries to implement real-world prediction use cases and improved efficiency through data-driven insights

PROJECTS

Linkedin AI Agent   **Jun 2025 - Aug 2025**

- Developed an automation agent to generate and publish LinkedIn content using OpenAI GPT-4o and LangChain within an MCP architecture.
- Implemented a FastAPI backend with LinkedIn REST API integration to deliver seamless, automated content posting.

NewsBot   **May 2025 - Jun 2025**

- Built a retrieval-augmented generation (RAG) system that processes news articles and PDFs, performs semantic search using FAISS, and answers context-aware queries.
- Integrated Streamlit with LangChain and OpenAI GPT-4o to deliver explainable, evidence-grounded responses, achieving an average 67% citation coverage.

AI-Powered Resume Evaluator   **Apr 2025 - May 2025**

- AI-driven NLP system using Google Gemini model to evaluate resume–job alignment through multimodal reasoning and prompt-driven analysis.
- Designed a Streamlit interface that provides real-time feedback based on semantic relevance and keyword-based scoring.

Ticket Management System   **Feb 2025 - Mar 2025**

- 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.
- Employed session-based authentication and personalized dashboards to improve user interaction and streamline workflow tracking

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.