

VETRIVEL MAHESWARAN

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EDUCATION

M.S. Information Technology and Analytics | GPA: 4.0/4.0

Rochester Institute of Technology

2025 - present

Rochester, New York

B.E. Computer Science and Engineering | GPA: 8.9/10.0

R. M. K. Engineering College

2020 - 2024

Chennai, India

INTERNSHIPS

Data Science Intern | CodSoft

July 2024 - Aug 2024

Gained experience in AI by developing prediction models using Python, Scikit-learn, and related libraries. Also worked on real-time prediction APIs and deployed them using Flask while learning core AI concepts.

Machine Learning Intern | Barola Technologies

June 2023 - Aug 2023

Performed exploratory data analysis and applied algorithms including regression, classification, and clustering on real-world datasets, focusing on preprocessing, model development, and evaluation using Python and core libraries.

SKILLS

Programming Languages: Python, MySQL, HTML, CSS

Data Analysis & Visualization: Python Libraries, R, Microsoft Excel, Power BI, Tableau, Minitab

Cloud & AI Services: AWS, Amazon Kendra, Amazon Bedrock

Software Tools & IDEs: VS Code, Git, GitHub, Eclipse, Jupyter Notebook, Google Workspace, MS Office

Analytical & ML Libraries: Numpy, Pandas, Seaborn, Matplotlib, Scikit-learn, Keras, Plotly, SciPy, Flask

Operating Systems & Tools: Windows, Linux, Command Line (CMD), PowerShell, Terminal

PROJECTS

AI-Powered Resume Matcher

Apr 2025

Built a transformer-based NLP model to semantically compare resumes with job descriptions by applying sentence embeddings and cosine similarity to compute match scores, and built a responsive Flask web interface for real-time evaluation and seamless user interaction.

Ticket Management System

Feb 2025 - Mar 2025

Designed and developed a role-based ticket management system using Flask and MySQL, enabling employees to submit service requests and responders to manage, update, and complete tickets with dynamic ticket visibility, session-based authentication, and personalized dashboards for seamless user interaction and workflow tracking.

Sales Prediction using Python

July 2024 - Aug 2024

Performed end-to-end data analysis by processing and cleaning data with Python and core libraries, developing analytical models, extracting key insights using SQL, and delivering findings through a Power BI dashboard.

Smart detection of car defective parts with recommendations

Dec 2023 - Mar 2024

Implemented a Machine Learning model for detecting and classifying car damage, using Python libraries such as TensorFlow, Keras, and a QR code generation library for output display. Built a Flask application that allows users to upload images and receive real-time damage analysis, leveraging trained CNN models for accurate predictions.

ACHIEVEMENTS

- Aspiring Minds Computer Adaptive Test (AMCAT) Certifications, Nov 2021 to Jun 2023.
- National level E-Quiz on "Core Java Programming", Oct 2022 to Nov 2022.
- Bronze Medal recognition on "SkillRack", Sep 2022.

CERTIFICATIONS

- Basics of Python - Infosys Springboard
- Database Management System - Infosys Springboard
- Python Basics for Data Science - IBM
- Google Cloud career readiness Associate Cloud Engineer track - Google
- Digital Skills: User Experience - Accenture