

# Vinesh Vangapandu

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in Vinesh Vangapandu    🌐 vinesh509

## Technologies

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**Languages:** C++, C, Java, Python PL, SQL, JavaScript, HTML/CSS, JSON, Tailwind CSS, React.js.

**Developer Tools:** Terminal, Microsoft SQL Server, XCode, VS Code, Anaconda Navigator, Jupyter Lab, Orange 3.0, IBM SPSS, MS PowerBI, Advanced Excel, Github.

**Frameworks:** Tkniter, React, HDFS, Hive, Flask.

## Education

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| <b>MS</b>    | <b>Wright State University</b>   <i>Computer Science</i>   | Aug 2021 – April 2024 |
|              | <ul style="list-style-type: none"><li>• GPA: 3.2/4.0</li><li>• <b>Coursework:</b> Machine Learning, Design Algorithms and Analysis, Cloud Computing, Python Programming, Testing LLM models for precision instead of recall in Information Retrieval, Advanced Programming Language, Distributed Computing, Advanced Excel, React.</li></ul> |                       |
| <b>BTech</b> | <b>Gitam Deemed to be a University</b>   <i>Computer Science</i>   | Aug 2017 – June 2021  |
|              | <ul style="list-style-type: none"><li>• GPA: 7.08</li><li>• <b>Coursework:</b> Java Development, HTML, CSS, JavaScript, Introduction to AI, C++, MS Office, Probability and Statistics, Linux, Discrete Mathematics, DataBase Management Systems.</li></ul>  |                       |

## Experience

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| <b>Welkin Technologies LLC</b>   <i>Data Engineer</i>  | Alpharetta, GA<br>Oct 2024 – March 2025   |
| <ul style="list-style-type: none"><li>• Worked with BI team in gathering the report requirements and Sqoop to export data into HDFS and Hive.</li><li>• Involved in the below phases of Analytics using R, Python, and Jupyter Notebook.</li><li>• Data collection and treatment: Analyzed existing internal data and external data, worked on entry errors, classification errors and defined criteria for missing values.</li><li>• Data Mining: Used cluster analysis for identifying customer segments, Decision trees used for profitable and non-profitable customers, Market Basket Analysis used for customer purchasing behavior and part/ product association.</li></ul> |   |
| <b>Nihar Info Global Limited</b>   <i>Junior Data Engineer Intern</i>  | Hyderabad, India<br>Jan 2021 – April 2021 |
| <ul style="list-style-type: none"><li>• Developed multiple Map Reduce jobs in Java for data cleaning and pre-processing, also assisted with data capacity planning and node forecasting.</li><li>• Developed Map Reduce programs to extract and transform the data sets and results exported back to RDBMS using Sqoop.</li><li>• Utilized advanced PL/SQL collections such as associative arrays, nested tables, and VARRAYs to handle complex data structures and improve the efficiency of data processing tasks.</li><li>• Created tables in Hive and loaded the structured (resulted from Map Reduce jobs) data.</li></ul>  |   |

## Projects

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**Robot Arms Block Simulation** | C++, Multithreading, Data Structures, Terminal, Github.

[visit git repo](#) 

- C++ simulation of a dual-robotic-arm system designed to rearrange blocks between two locations (L1 and L2).
- It transforms an initial state into a user-defined final state through robotic operations like pickup, move, stack, unstack, and putdown.
- This simulation models real-world logistics automation and manufacturing assembly line operations where robotic arms coordinate to manipulate objects.

**Wine Sales Profit Optimizer Model using ML** | Python, ML, pandas, scikit-learn, Github.

[visit git repo](#) 

- Atomic Wines, a Midwest retail chain, sought to identify underpriced wines from its wholesaler's catalog to maximize profit margins.
- Built a predictive model (Python, scikit-learn) using wine chemical properties to estimate quality scores, enabling data-driven purchasing decisions for Atomic Wines.
- Identified top 20 high-value wines by calculating a (Predicted Quality/Price) ratio, uncovering undervalued inventory with potential profit margin.
- Automated data preprocessing (Pandas, NumPy) and output generation (CSV) to streamline integration with business workflows.

**Personal Web Portfolio using React+Vite** | JavaScript, Tailwind CSS, React, Vite, Netlify.

[visit the web](#) 

- Built a modern, portfolio website built with React+Vite.
- Showcases my projects, skills, and professional experience with smooth animations and responsive design.

## Certificates

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**Python for Everybody** | University of Michigan, Coursera.

**Machine Learning Algorithms** | Supervised Learning Tip to Tail – Alberta Machine Learning Institute (AMLI), Coursera.

**Python Data Structures** | Rice University, Coursera.

## Key Competencies

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**Good communication skills:** adept at conveying complex ideas both verbally and in writing.

**Analytical thinking and problem-solving:** skilled at identifying issues, analyzing data, and proposing practical solutions to complex problems.

**Adaptability and flexibility:** able to thrive in fast-paced, changing environments, and quickly adjust priorities to meet evolving needs.

**Proficient in technical tools and software:** experienced in using Anaconda Navigator, jupyter notebook, MS office, Visual Studio code, JMP, and PowerBI, with a demonstrated ability to learn new technologies quickly.