

Vinesh Vangapandu

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in Vinesh Vangapandu 🌐 vinesh509

Technologies

Languages: C++, C, Java, Python PL, SQL, JavaScript, HTML/CSS, JSON.

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

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

Education

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|--------------|--|-----------------------|
| MS | Wright State University <i>Computer Science</i> | Aug 2021 – April 2024 |
| | <ul style="list-style-type: none">• GPA: 3.2/4.0• Coursework: 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. | |
| BTech | Gitam Deemed to be a University <i>Computer Science</i> | Aug 2017 – June 2021 |
| | <ul style="list-style-type: none">• GPA: 7.08• Coursework: Java Development, HTML, CSS, JavaScript, Introduction to AI, C++, MS Office, Probability and Statistics, Linux, Discrete Mathematics, DataBase Management Systems. | |

Experience

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| Welkin Technologies LLC <i>Data Engineer</i> | Alpharetta, GA
Oct 2024 – March 2025 |
| <ul style="list-style-type: none">• Worked with BI team in gathering the report requirements and Sqoop to export data into HDFS and Hive.• Involved in the below phases of Analytics using R, Python, and Jupyter Notebook.• Data collection and treatment: Analyzed existing internal data and external data, worked on entry errors, classification errors and defined criteria for missing values.• 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. | |
| Nihar Info Global Limited <i>Junior Data Engineer Intern</i> | Hyderabad, India
Jan 2021 – April 2021 |
| <ul style="list-style-type: none">• Developed multiple Map Reduce jobs in Java for data cleaning and pre-processing, also assisted with data capacity planning and node forecasting.• Developed Map Reduce programs to extract and transform the data sets and results exported back to RDBMS using Sqoop.• 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.• Created tables in Hive and loaded the structured (resulted from Map Reduce jobs) data. | |

Projects

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

[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, Git.

[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, CSS, React, Vite, Netlify, Git.

[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

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

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.