

VAIBHAV VARSHNEY

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Portfolio Website: <https://varshney2vaibhav.carrd.co/>

ACADEMIC QUALIFICATION

University of Maryland, College Park

Master of Science, Data Science

August 2025 - Present

Dr. Vishwanath Karad MIT World Peace University

Bachelor of Technology - Computer Science and Engineering

July 2020 - May 2024

CGPA: 8.59/10.0

TECHNICAL SKILLS

Programming Languages: Python

Database: MySQL

Machine Learning & AI: Machine Learning, Agentic AI, LLM's, Natural Language Processing, Deep Learning

Big Data & Analytics: Big Data Technologies, PowerBI, Microsoft Excel

Cloud & DevOps: AWS

Enterprise Tools: ERPNext, Salesforce

ACADEMIC PROJECTS

Title: Plant Disease Detection

March 2024 - April 2024

Team Size: 4

Role: Team Lead

Tools & Technologies: Python, Keras, TensorFlow, Pandas, Seaborn, Matplotlib, Streamlit

- Led a team of 4, overseeing task distribution, project timeline, and resource management to ensure smooth collaboration and timely completion.
- The model achieved an accuracy of 97%, reliably distinguishing between multiple diseases. Results were validated using a confusion matrix, highlighting the model's precision in disease detection and identifying any misclassifications.
- This project demonstrates the potential of deep learning in enhancing agricultural disease management through accurate early detection.

Title: Heart Failure Prediction

July 2023 - August 2023

Tools & Technologies: Python, Scikit-learn, Random Forest, SVM, Logistic Regression, K-Nearest Neighbors, XGBoost, Data Preprocessing, Model Evaluation, Streamlit

- Developed a predictive model to identify heart disease in individuals based on key medical attributes such as age, blood pressure, cholesterol levels, and exercise-induced angina.
- Implemented and compared multiple machine learning algorithms: Random Forest, Support Vector Machine (SVM), Logistic Regression, K-Nearest Neighbors, Decision Trees, and XGBoost.
- Achieved model accuracy of 86.4% using SVM, with Random Forest also delivering high performance at 84.7%.

WORK EXPERIENCE

Mavio Solutions Pvt. Ltd. , Intern

August 2023 – December 2023

- **ERP Development & Customization:** Developed and customized ERP solutions using the Frappe framework, Python, HTML, CSS, and JavaScript, with a specialization in ERPNEXT. Tailored ERP solutions to align with diverse business requirements, enhancing workflow efficiency and system integration. Managed and processed large datasets to ensure data accuracy and integrity throughout the development process.
- **Salesforce CRM Solutions:** Led the development of comprehensive Salesforce CRM solutions encompassing sales, customer service, marketing automation, e-commerce, analytics, and application development. This initiative streamlined operations and contributed to substantial gains in operational efficiency and customer satisfaction.

CERTIFICATIONS

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|---|--------------------------------|
| • Data Science Fundamentals with Python and SQL By IBM | September 2024 - November 2024 |
| • Databases and SQL for Data Science with Python By IBM | November 2024 |
| • Statistics for Data Science with Python By IBM | November 2024 |
| • Tools for Data Science By IBM | November 2024 |
| • Python for Data Science, AI & Development By IBM | November 2024 |
| • Python Project for Data Science By IBM | September 2024 |
| • PwC Switzerland Power BI Job Simulation on Forage | June 2024 |