

Varad Alshi

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Education

**Dr. Vishwanath Karad MIT World
Peace University**

2023 – 2027

B.E. in Computer Engineering

- FY CGPA: 8.97
- SY CGPA: *Ongoing*

Experience

Data Science Intern

Finlatics Data Science with Python Program | Feb 2025 – Apr 2025

- Completed a 2-month intensive, hands-on internship focused on data analysis using Python.
- Worked on multiple real-world projects involving statistical techniques, business problem translation, and data-driven decision-making.
- Gained experience in handling complex datasets, deriving actionable insights, and applying Python for data wrangling and analysis.
- Recognized for strong attention to detail, critical thinking, and innovative problem-solving, as documented in a formal Letter of Recommendation by the program supervisor.

Projects

Stock Price Prediction using Machine Learning

- Developed an end-to-end stock price prediction model using **Python** and **machine learning**.
- Retrieved and processed historical stock data (1990–2025) using the **yfinance** API.
- Preprocessed and split data using **Pandas**, reserving the last 100 rows for testing.
- Trained a **Random Forest Classifier** using **Scikit-learn** to predict stock price movement.
- Evaluated predictions with **boolean comparison** and **precision score** as the key metric.
- Applied **backtesting techniques** to simulate real-world model performance and retrained for better accuracy.
- Improved model precision to **57%+** after refinement and iterative tuning.
- Visualized findings using **Matplotlib** for performance insights and model evaluation.

F1 2025: Race Prediction Model

- Developed a machine learning model (Gradient Boosting Regressor) to predict per- driver lap times with measurable accuracy.
- Integrated live **qualifying data**, **sector times**, and **OpenWeatherMap** forecasts for real-time race simulations.
- Engineered a custom **Wet Performance Factor** to account for driver efficiency under wet conditions.
- Created reusable, race-specific prediction scripts for continuous updates throughout the F1 2025 season.
- Implemented robust pre-processing (mean imputation, outlier handling) and model evaluation using **MAE**.

- Structured the project for scalability, allowing future GPs to plug in new data with minimal changes

Carbon Footprint Calculator

- Developed a responsive web application using **React**, **Vite**, and **TypeScript** to estimate users' carbon emissions based on travel, energy usage, and lifestyle data.
- Engineered dynamic form handling with **contextual validations** and reusable components for streamlined data entry and modular UI.
- Applied state management using **React Context** and optimized performance through code-splitting and lazy loading.
- Structured the project for scalability, enabling easy integration of new emission categories and global expansion with minimal changes.

Skills

- Data Science
- Data Visualization
- Machine Learning and Artificial Intelligence
- Database Management
- Backend Development - Golang
- **Languages:** C, C++, Python, Java

Courses

Java Masterclass 2023 Tim Buchalka

- **Certificate:** [udemy.com/certificate/UC-6a420b80-d522-4ad4-86d4-4bca7ab78ad7/](https://www.udemy.com/certificate/UC-6a420b80-d522-4ad4-86d4-4bca7ab78ad7/)

R Programming Basics for Data Science IBM

- **Certificate:** courses.edx.org/certificates/edc57a520a8e4963a4d8c6226ea9330f

Python Basics for Data Science IBM

- **Certificate:** courses.edx.org/certificates/703c9d63c930482eb40824567e20f5f5

Extracurricular Activities

GDG - MITWPU | Content Writer

Nov 2023 -

- Part of GDG-MITWPU's Design X Content Team, working as a content writer.
- Have provided multiple short pieces of content, posted on the club's social media handles.
- Volunteered for multiple club events, since joining.

CDC – MITWPU | Training and Upskilling Team

Feb 2025 -

- Part of MITWPU's Career Development Center as member of Training and Upskilling Team
- Volunteered for events, gaining real-world knowledge about relevant fields.