

# VAISHNAVI GAWALE

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## EDUCATION

### University at Buffalo, State University of New York

Buffalo, New York

*Master of Science in Artificial Intelligence*

Aug 2024 – Present

- **Courses :** Introduction to Machine Learning, Basics of Artificial Intelligence, Numerical Mathematics, Analysis of Algorithm, Data Intensive Computing, Computer Vision, Reinforcement Learning and Pattern Recognition.

### University of Mumbai - Veermata Jijabai Technology Institute(VJTI)

Mumbai, India

*Master of Technology in Computer Engineering(CGPA: 7.75/10)*

Aug 2017 – July 2019

- **Publication:** Vaishnavi Gawale, Varshapriya J.N., “Firewall Algorithm Approach for Diminution of DDOS attack on Cloud” in *International Journal of Scientific and Research Development –IJSRD* (July 2019).

## TECHNICAL SKILLS

- Languages : Python, R, Matlab, C/C++
- Libraries/Frameworks : Numpy, Pandas, Matplotlib, Scikit-Learn, Tensorflow, Keras, Langchain.
- Databases & Tools : SQL, NoSQL, PowerBI, Tableau, Hadoop, Spark, Kafka, AWS, Linux, RestAPI, FastAPI.
- Machine Learning : Deep Learning, Neural Networks, Large Language Models (LLMs).

## WORK EXPERIENCE

### Senior Software Engineer

Aug 2019 – Sept 2022

*Vegayan Systems Private Limited*

Mumbai, India

- Developed and deployed machine learning models for network traffic prediction for leading telecom companies, achieving a 25% improvement in accuracy and operational efficiency.
- Applied advanced data cleaning and preprocessing techniques using Python libraries such as NumPy and Pandas, enhancing data quality and consistency.
- Proficient in Python, Linux, and SQL databases for automating workflows, generating complex data reports, and efficiently extracting information from large datasets.
- Designed and implemented a responsive web interface and RESTful APIs in Java to integrate search functionality, resulting in a 30% increase in system efficiency.

### Technical Instructor (Assistant Professor)

Oct 2022 – May 2024

*MGM's Jawaharlal Nehru Engineering College*

Aurangabad, India

- Designed and taught courses on Data Structures, Programming Logic Design, and Python Programming, focusing on algorithms, problem-solving techniques, and software development practices.
- Developed technical curricula, syllabi, and hands-on coding assignments including tests, quizzes, and final exams for practical sessions.
- Initiated a YouTube channel to share educational content, creating technical video lectures on Data Structures and Python, enhancing online learning and technical content delivery.- [YouTube Link](#)

## PROJECTS

### Bank Customer Churn Prediction – Deep Learning Project using ANN

- Developed a predictive model to determine if bank customers will exit or stay, based on features such as credit score, account balance, and membership activity.
  - Used a Sequential neural network model with two hidden layers for classification, leveraging customer data.
  - Deployed the model using Streamlit, creating an interactive web application to make predictions based on user inputs.
- Skills – Numpy, Pandas, Scikit-learn, Tensorflow, Keras, Dense, Tensorboard*

### Real Estate Price Evaluation - Bangalore's Price Prediction Model

- Deployed a platform providing real estate price predictions with 83% accuracy, enhancing investment decision-making through a user-friendly web interface hosted on AWS EC2.
  - Optimized prediction models, including Linear Regression, Lasso, and Decision Trees, using cross-validation and GridSearchCV techniques to improve accuracy.
  - Developed an interactive user interface, allowing real-time price predictions based on user inputs.
- Skills – Numpy, Pandas, Scikit-learn, Flask, AWS EC2, Linear Regression, Decision Tree, GridSearchCV*

## CO-CURRICULAR & ACHIEVEMENTS

- Awarded as Most Valuable Employee of the Year 2021, Annual Gathering, Vegayan Systems Pvt. Ltd, India.
- Winner of Inter-college Carom Sports Competition, Latur, India