Prabhu Bhor

Binghamton, NY | (607)8215705 | Gmail | LinkedIn

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science *May 2026*
Mumbai University, Mumbai, India
Bachelor of Science in Computer Engineering *May 2024*
Maharashtra State Board of Technical Education, Maharashtra, India
Bachelor of Science in Computer Engineering *May 2021*

TECHNICAL SKILLS

Languages: Python (Pandas, NumPy, Scikit-learn), C, C++, Java, JavaScript, HTML/CSS, Linux , Golang , Bash .
ML Framework : PyTorch , Tensorflow , Scikit-learn, XGBoost , HuggingFace , NLTK , SpaCy , LangChain , LLM , RAG
Frameworks: ReactJS, Flask, AWS,Git, Docker , Grafana, CI/CD pipeline, Github Actions, Fast API, Docker
Databases: MySQL, MongoDB, PostgreSQL
Certification: Data Analytics and Visualization: Accenture, Microsoft AI Classroom Series, Python for Data Science: NPTEL

WORK EXPERIENCE

President / Co-Founder - ***Graduate Student Organization, Binghamton University*** **|** Binghamton**,** NY *June 2025- Present*

- Designed and deployed secure, data-driven pipelines using Python (Pandas, NumPy) to ingest, process, and analyze structured/unstructured datasets , enabling data-backed policy shifts and optimized resource allocation.
- **Led a 25+-member executive board** using agile frameworks (sprints, retros, backlog refinement) to prioritize initiatives and execute strategic plans consistently ahead of schedule.
- Applied NLP techniques (NLTK) to analyze student feedback, performing sentiment analysis to identify positive and negative impacts, which informed data-driven policy improvements and resource allocation.

Machine Learning Intern - Campalin Innovations **|** Remote**,** NY *September 2023 – October 2023*

- Built a machine learning model to predict customer churn by combining Random Forest, Gradient Boosting, and SVM models, achieving a **ROC AUC of 0.823** to identify customers likely to leave.
- Applied SMOTE to balance the churn dataset, improving accuracy when predicting the minority class (churned customers).

RESEARCH EXPERIENCE

Research Assistant, *Prof. Chandrashekhar Raut, Department of Computer Engineering, DMCE* *January 2023- May 2024*
Deep Flood Project –/ Research Project

- Built a flood classification model using a **fine-tuned Mobile Net CNN**, applying transfer learning to accurately distinguish between flood and non-flood images across a **2,100-image dataset**. This helped achieve high precision while keeping the model lightweight for potential deployment in low-resource environments.
- Implemented rainfall prediction using **RNN and LSTM architectures** to capture seasonal and regional trends across Indian meteorological data, improving the forecasting of flood-prone zones for disaster preparedness.
- Developed **an end-to-end pipeline integrating image segmentation**, spatial metadata analysis, and flood mask overlays to support emergency response and real-time alerts via a user-friendly portal.
- **Publication:** Bhor, P., & Raut, C. (2024). Deep Flood: Leveraging Deep Learning for Flood Inundation Modeling and Disaster Management Preparedness. Journal of Engineering and Technology Management, Volume 72. DOI: 20.14118/v72.2024.101960

PERSONAL PROJECTS

Sentiment Analysis on Cryptocurrency News

- Built a real-time sentiment analysis system by scraping cryptocurrency articles from major **news sources (e.g., CNBC.com, DW.com) via Google News RSS using BeautifulSoup and Newspaper3k** to collect structured text data across custom timeframes.
- Performed **NLP**-based **sentiment scoring using TextBlob**, extracting **polarity** and **subjectivity** values and categorizing sentiment into positive, neutral, or negative based on article tone to evaluate public influence on crypto market behavior.

MedVision / Medical Image Classifier

- Built and deployed a Medical Image Classifier which implements **Gen AI API and LLM-based prompt generation,** improving diagnostic accuracy and demonstrating scalable AI applications in healthcare domains.
- Designed and implemented the model architecture with a Streamlit-based interface for interactive visualization and end-user usability.

Hepatitis C Stage Prediction Using Logistic Regression – Biomedical ML Project

- Built a multinomial logistic regression model in Python to classify Hepatitis C stages (early, suspected, advanced) using patient biomarker and clinical data, **achieving 97% accuracy and 97% F1-score** in multi-class prediction.
- Performed univariate and bivariate data analysis **to understand key clinical markers** (e.g., ALT, BIL, AST) and selected relevant features through correlation heatmaps and variance **filtering to improve model interpretability** and reliability.