

DNYANESHWARI PRASAD PAWALE

TX, USA

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EDUCATION

New York Institute of Technology (GPA: 3.71)

Master of Science in Computer Science

Savitribai Phule Pune University (GPA: 9.81)

Bachelor of Engineering in Computer Engineering

September 2022 – May 2024

Manhattan, NY

August 2018 – June 2022

Pune, India

TECHNICAL SKILLS

Languages: Python, R, C, C++, C#, GoLang, Java, SQL, HTML, CSS, JavaScript

Databases: MySQL, MongoDB, PostgreSQL

Developer Tools: Jupyter, PyCharm, RStudio, Postman, VS Code, Git, Eclipse IDE, Selenium, JIRA, Swagger, Docker, Snowflake

Cloud Services: AWS, GCP

Version Control: GitHub, GitLab, BitBucket

Development Methodologies: Agile, Scrum, DevOps practices

Libraries: TensorFlow, Keras, PyTorch, NLTK, OpenCV, Flask, Plotly, Pandas, Numpy, Scikit-learn

Data Visualization tools: Tableau, Power BI, Looker

Operating Systems: Microsoft Windows, Linux

EXPERIENCE

New York Institute of Technology

January 2024 – May 2024

Teaching Assistant Peer Tutor

Manhattan, New York

- Facilitated one-on-one tutoring sessions for undergraduate and graduate students in subjects including AI, ML, Software Engineering, Database Systems, Data Mining, Big Data Analytics, and Data Structures.
- Provided support with coursework, ensuring clarity in concepts and effective problem-solving.
- Contributed to improved academic performance, with many students achieving top grades, and received positive feedback for clarity, patience, and effective teaching methodologies.

SafeX Pay Pvt Ltd

July 2021 – March 2022

Machine Learning Intern

Mumbai, India

- Developed AI-powered fraud detection and prevention system within an online shopping website and payment gateway environment.
- Engineered predictive model using XGBoost, TensorFlow achieving 90% accuracy for risk scoring, enabling multi-factor authentication.
- Leveraged Python Libraries(NumPy, Pandas, Scikit-learn) for data pre-processing, predictive modeling and analysis.
- Fine tuned model to reduce false-positive alerts and increase true positive detection by providing risk assessment in real time based on user's transaction history.

Phi Education Solutions

September 2021 – March 2022

Python Developer Intern

Mumbai, India

- Created a web scraping RPA (Robotic Process Automation) script in Python and Selenium to scrape multiple websites based on user choice, retrieving text, images, and video content, significantly reducing data collection time by 80%.
- Integrated RPA with MySQL database, File system and spreadsheet to automate the data parsing and storage workflows, optimizing resource allocation and improving efficiency of retrieval and analysis.
- Conducted functional testing using pytest, regression testing to monitor the automation workflows.

ACADEMIC PROJECTS

Network Intrusion Detection using Autoencoders | Python, TensorFlow, Keras, Scikit-learn

April 2024

- Implemented a network intrusion detection system using Autoencoder neural network architecture achieving an accuracy of 90.06%.
- Constructed the model using TensorFlow and Keras, successfully extracting essential features from data samples, resulting in optimal separation between normal and attack classifications resulting in high recall and F1 scores.
- Employed pandas, NumPy, and Seaborn for data preprocessing, feature engineering, and data visualization.
- Effectively balanced anomaly detection with minimal false positive of 1.91% while maintaining high precision of 98% by optimizing the model through setting an appropriate reconstruction error threshold.

Stock Price Prediction Using Generative Adversarial Network(GAN) | Python, Jupyter, Anaconda

November 2023

- Architected stock price prediction model using GAN, achieving a prediction accuracy with an RMSE of 2.35.
- Devised a GAN architecture with TensorFlow, consisting of a generator and discriminator, effectively leveraging historical stock data and sentiment analysis features, including Moving Averages and Bollinger Bands, to enhance precision and trend consistency in price movement predictions.
- Designed detailed visualizations using Matplotlib and Seaborn, illustrating predicted versus actual stock prices and sentiment trends over time.
- Enhanced model accuracy and stability by optimizing GAN parameters and training techniques, minimizing prediction variance and achieving a balanced trade-off between bias and variance in predictions.

ACADEMIC RESEARCH / CERTIFICATIONS

- Credit Card Fraud Prevention And Detection** – Published in International Journal of Research and Analytical Reviews (IJRAR) - Vol 9, issue 2, April 2022
- Data Analytics Specialization by Google.**
- AI Essentials by Google.**
- LinkedIn Learning : What is Generative AI.
- Machine Learning Plan by AWS.