Dnyaneshwari Prasad Pawale

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EDUCATION

New York Institute of Technology
Master of Science in Computer Science(GPA-3.71)
Savitribai Phule Pune University
Bachelor of Engineering in Computer Science (CGPA-9.81)

Completed **May 2024**
Manhattan, NY
Completed **June 2022**
Pune, India

SKILLS

Programming Languages: C, C++, R, Python**,** Java**,** HTML, CSS, MySQL.
CS Core: OOP, Data Structures, DBMS, AI, ML, AR, VR.

EXPERIENCE

New York Institute of Technology   **January 2024 – May 2024**
Teaching Assistant Peer Tutor   **Manhattan, New York**
• Conducted one-on-one tutoring sessions for undergraduate and graduate students in the following subjects: Artificial Intelligence, Machine Learning, Software Engineering, Database Systems, Computer Architecture, and Programming Languages. Created tailored tutoring plans to enhance student comprehension and performance in complex technical subjects. Supported students with coursework, assignments, and exam prep, ensuring clarity in concepts and problem-solving. Boosted academic performance, with many students achieving top grades. Earned positive feedback for clarity, patience, and effective teaching.

SafeX Pay Pvt Ltd   **July 2021- March 2022**
Intern   **Mumbai, India**
• Developed a credit card fraud prevention and detection system leveraging the XGBoost algorithm within an online shopping website and payment gateway environment. Utilized the Pandas library for data preprocessing tasks, including handling transaction history, amount, location, and device information. Engineered a predictive model using XGBoost, TensorFlow and Keras for training and implementation. The model assigns risk scores to current transactions, enabling multi-factor authentication measures such as Phone OTP, Email OTP, device fingerprinting, and face verification.

ACADEMIC PROJECTS

Network Intrusion Detection using Autoencoders   **May, 2024**
Tool-Jupyter   Programming language- Python   Dataset – Kaggle   **Manhattan, NY**
• Developed an Autoencoder-based Network Intrusion Detection System using TensorFlow to enhance cybersecurity by identifying abnormal patterns in network traffic. Designed and trained an autoencoder with a specific architecture: 4 dense input layers as the encoder, one bottleneck layer, and 3 dense output layers as the decoder. Balanced the threshold for reconstruction error to optimize the detection of anomalies while minimizing false positives. Contributed to protecting sensitive data and preventing cyber threats through innovative use of neural network architectures.

EDA on Tweet Data   **December, 2023**
Tool-Jupyter   Programming language- Python   **Manhattan, NY**
• Conducted Exploratory Data Analysis (EDA) on a dataset comprising 10,000 JSON-formatted tweets using NLTK, VADER, and scikit-learn for sentiment analysis. Employed Plotly for data visualization, including word clouds. Applied machine learning algorithms to extract insights and patterns from the data. This project demonstrated proficiency in data analysis, natural language processing, data visualization, and machine learning techniques, showcasing advanced computational skills.

Best Deal Finder App   **December, 2022**
Tool-Visual Studio Code   Programming language -Python, Angular JS   **Manhattan, NY**
• Developed a Best Deal Finder web app with AngularJS to help users discover the most economical deals online. Utilized AngularJS for user-friendly front-end design and employed real-time web scraping techniques with BeautifulSoup and Requests libraries in Python to extract pricing data from top e-commerce sites like Amazon, Walmart, Target, and eBay. Implemented dynamic pricing search functionality for displaying current product prices to users

CERTIFICATIONS

• Python Specialization Course by University of Michigan.
• SQL for Data Science by University of California, Davis.
• Cloud Computing for beginners by Udemy.

EXTRACURRICULAR ACTIVITIES

• Discovered 16 Asteroids while working as a Citizen Scientist in collaboration with NASA's IASC and Space- India's AIASC.
• Volunteered for IEEE events for IEEE MMCOE Student Branch.
• Worked as an Event Management Head at Zenith Astronomy Club, MMCOE.