AMIT PRAJAPATI

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EDUCATION

Worcester Polytechnic Institute   **Expected August 2025**
Candidate for Master of Data Science

Mukesh Patel School of Technology Management & Engineering, NMIMS, Mumbai, India.   **July 2023**
Bachelor of Technology in Data Science with *Distinction*   **CGPA 3.55/4**

TECHNICAL SKILLS

- Programming languages: Python, Matlab, R, Html, CSS, C, Java.
- Database Language: MySQL, MongoDB.
- Software: AutoCAD, Tableau, Excel.

PROFESSIONAL EXPERIENCE

Data Analyst   **December 2022 –May 2023**
Munich RE, Mumbai, India

- Fraud networks attempt to conceal connections between various parties such as surveyors, garages and so on.
- Identifying suspicious behavior or collusion between the parties will aid the insurer in its investigation of fraud, and the insurer will be able to use this information to its advantage.
- This process entails extracting insights from data and determining the association using **association rules**.

Quant Intern   **May 2022 –September 2022**
Fidelis Macro Global Fund, Ebene, Republic of Mauritius

- Gathered historical data using **API** and stored it for further use.
- Generated multiple strategies for NSE Option Trading and back tested it on the historical data using python as the programming language.
- Monitored and analysed different financial indicators to maximize the return on investment while reducing the risk.

Data Science Intern   **January 2022 –February 2022**
Let the Data Confess, Gurgaon, India

- Worked on an educational **end-to-end pipeline** for loan approval based on credit history.
- Applied multiple Machine Learning methods for Feature Engineering, Modelling and Evaluation and finally hosted it on cloud using Streamlit and GitHub.
- Utilized the project as a training course on building an end-to-end classification pipeline.

ACADEMIC PROJECTS AND PAPERS

Real Estate Price Estimator

- Collected data through web scraping from multiple websites and pre-processed the data using statistical methods.
- Gathered insights using visualization and applied **Feature Engineering** to select the best features.
- Trained multiple machine learning models and selected the best one using evaluation metric next created a user interface and deployed it on a cloud-based platform.
- Technologies: Python, Statistics, Machine learning, Streamlit.

Real Time Mudra Classifier

- Constructed the dataset manually by clicking pictures as the data on the internet was not consistent.
- Assembled, cleaned and organized the data to apply different techniques to process the data and reduce the dimension, used **(PCA, LDA)** for the same.
- Trained, optimized deep learning models, and even trained models using **transfer-learning** (VGG16) and evaluated thembased on F1-score, accuracy further developed a basic locally hosted user interface to use it in real time.
- Technologies: Python, Deep learning, Streamlit, Computer Vision.

Path Finding Car

- Trained a self-driving car using genetic algorithm called **Neuroevolution** of Augmented Topologies (NEAT).
- Formulated the model such that the car avoids colliding against walls(using 3 antennas) while driving across the track and mutating the car that travels the farthest and saving it for further mutation.
- Created a user interface using Pygame to demonstrate the progress of the car on the track.
- Technologies: Python, Deep Learning, Pygame.

EXTRA CURRICULAR ACTIVITIES

- Appointed as the Head of Off-Campus Event Organiser within the GSG committee, where I have organised several events involving student gatherings and outdoor activities.
- Chaired as the Subhead, ISA (International Society of Automation) for various events quiz events, mock parliaments, competition (IAG-2022). during the years 2019 to 2021 and conducted
- Appointed as the executive for the photography department, Social Conclave during the years 2019 to 2020, captured the crucial moments during the event.