

# AMIT PRAJAPATI

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## EDUCATION

**Worcester Polytechnic Institute**  
Candidate for Master of Data Science

**Expected August 2025**

**Mukesh Patel School of Technology Management & Engineering, NMIMS, Mumbai, India.**  
Bachelor of Technology in Data Science with *Distinction*

**Expected July 2023**  
**CGPA 3.55/4**

## TECHNICAL SKILLS

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

## PROFESSIONAL EXPERIENCE

**Munich RE, Mumbai, India**

**December 2022 – May 2023**

*Designation – Data Analyst*

Munich RE is one of the top providers of reinsurance, primary insurance, and insurance-related risk solutions in the world.

- 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.

**Fidelis Macro Global Fund, Ebene, Republic of Mauritius**

**May 2022 – September 2022**

*Designation – Quant Intern*

Fidelis is a public company limited by shares and authorized to operate as an expert fund.

- 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.

**Let The Data Confess, Gurgaon, India**

**January 2022 – February 2022**

*Designation – Data Science Intern*

LTDC is an Ed-Tech company which train students across the globe to upskill their technical skills to meet the growing demands of the industry using Artificial Intelligence.

- 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 them based 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

- 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.
- Enrolled in a training internship at Forsk Coding during January 2021 to March 2021, created user interface for a company.