

AMIT PRAJAPATI

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EDUCATION

Worcester Polytechnic Institute

Expected August 2025

CGPA 4/4

Candidate for Master of Data Science

- Courses: Big Data Management, Introduction to Data Science, Statistics for 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

- Courses: Data Structure & Algorithm, DBMS, Business Visualization, Statistical method-I and II, Artificial intelligence, Machine Learning, Big Data, Computer Vision, Deep Learning, NLP, Cloud Computing

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

- Uncovered concealed connections in fraud networks involving surveyors and garages.
- Employed association rules to identify suspicious behavior and collusion, streamlining fraud investigations for the insurer.
- Achieved a 30% improvement in fraud detection accuracy through advanced data extraction and analysis techniques.

Quant Intern

May 2022 – September 2022

Fidelis Macro Global Fund, Ebene, Republic of Mauritius

- Efficiently gathered historical data using APIs, optimizing data storage processes.
- Developed and tested multiple NSE Option Trading strategies using Python, resulting in a 25% increase in strategy effectiveness.
- Monitored and analyzed financial indicators, optimizing return on investment and risk management strategies.

Data Science Intern

January 2022 – February 2022

Let the Data Confess, Gurgaon, India

- Led the creation of a comprehensive workflow for loan approval grounded in credit history analysis.
- Applied diverse Machine Learning techniques for Feature Engineering and Modeling, deploying the solution on the cloud using Streamlit and GitHub.
- Used the project as a training course on constructing comprehensive classification pipelines.

ACADEMIC PROJECTS AND PAPERS

Real Estate Price Estimator

- Spearheaded web scraping initiatives across diverse websites, significantly reducing data acquisition time by 40% and facilitating data-driven decision-making processes.
- Leveraged visualization techniques to gain valuable insights and implemented Feature Engineering to identify and select optimal features for analysis.
- Evaluated multiple machine learning models using various metrics, meticulously choosing the best-performing one. Developed a user-friendly interface and deployed the solution on a cloud-based platform.
- Technologies: Python, Statistics, Machine learning, Streamlit.

Real Time Mudra Classifier

- Personally curated the dataset through manual image capture due to inconsistent online data.
- Executed comprehensive data cleaning and organization, incorporating dimensionality reduction techniques (PCA, LDA).
- Achieved a remarkable 94% accuracy by optimizing deep learning models, including transfer-learning with VGG16.
- Engineered and deployed a real-time user interface for practical application of the high-performing CNN with PCA.
- 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 such as quizzes, mock legislatures, and competitions (IAG-2022). from 2019 to 2021 and was carried out.