

ADITYA MITTAL

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EDUCATION

Michigan State University

Master of Science, Data Science

Aug 2025 — May 2027

East Lansing, MI

- Cumulative GPA: 4.0/4.0
- Relevant Coursework: Foundation of Data Science, Big Data Analytics, Statistics for Mathematical Learning, Computational Foundations of AI, Statistical Learning and Data Analysis

SRM University, KTR

Bachelor of Technology, Computer Science and Engineering

Chennai, India

Oct 2020 — May 2024

- Cumulative GPA: 3.58/4.0
- Relevant Coursework: Object Oriented Programming, Data Structure and Algorithm, Data Mining & Analysis, ML in Drug Discovery, Operations Research, Database Management systems, Artificial Intelligence

WORK EXPERIENCE

Data Scientist

Aavas Financiers Ltd.

Jul 2024 — Jan 2025

Jaipur, India

- Analyzed market opportunities and conducted customer profiling to identify high-potential locations for new branches
- Developed a retention ML model in Python using large bureau datasets to predict and reduce customer churn
- Developed a comprehensive scoring system for evaluating branch performance across all locations in India

Data Analysis Research Intern

MNIT

Jun 2023 — Sept 2023

Jaipur, India

- Developed ML pipeline to detect fraudulent credit card transactions from anonymized transaction data
- Implemented SMOTE sampling method to address class imbalance in the dataset to train unbiased and fair model
- Improved classification model accuracy through rigorous testing and hyperparameter tuning

PROJECTS

Credit Risk Prediction Dashboard

Sept 2025 — Dec 2025

- Developed an ML pipeline for loan default prediction with preprocessing, modeling, and evaluation on real financial data
- Created an interactive Streamlit app for risk scoring, EDA, and model interpretation
- Applied class-imbalance handling, feature scaling, and explainability (SHAP) to improve model reliability

Human Pose Tracking and Detection

Dec 2023 — May 2024

- Developed an application to detect and track human poses in real-time for an interactive video game user interface
- Integrated OpenCV and MediaPipe with Convolution Neural Network based keyframe detection models for live processing
- Created a robust pipeline to process video frames and produce stable output with low latency and high accuracy

Virtual 3D Glasses Face Trial

Sept 2023 — Dec 2023

- Worked on a virtual 3d eyeglasses face trial application which emphasized on personalized user experience
- Utilized OpenCV and Active Appearance Model (AAM) to implement facial recognition and real-time eyeglasses rendering

Pneumonia Detection using Artificial Intelligence

Feb 2023 — May 2023

- Trained a CNN model on the preprocessed X-ray dataset by applying transfer learning and fine-tuning approaches
- Deployed the trained models as a web and mobile application for real-time feedback

EXTRACURRICULAR ACTIVITIES

Content Writing at The Zooked

Jun 2022 — Oct 2022

- Created compelling content that engaged readers and helped capture potential clients
- Generated informative blog posts, social media content and market campaigns that expanded company's presence

SKILLS

- **Programming Languages:** Python, C/C++, HTML/CSS, Bash, R, Tableau