

EDUCATION				
Degree/Certificate		Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)		Indian Institute of Technology, Kanpur	—	2025 - Present
B. Tech (Electronics & Comm. Engineering)		Birla Vishvakarma Mahavidyakaya, Anand	7.51	2019-2023
Higher Secondary Education (CBSE Board)		K.V. No.1 Shahibaug, Ahmedabad	64.6	2019
Secondary Education (CBSE Board)		K.V. No.1 Shahibaug, Ahmedabad	8.0	2017
PROJECTS				
Multivariate and Polynomial Reg. for Car Price Pred. Machine Learning Regression (GitHub Link) (Self Project) July 2025				
Objective	Build Car price Prediction Models using Linear/Polynomial Regression with Lasso and Ridge regularization for accuracy and reduced overfitting.			
Approach	1. Data Preparation – Loaded car dataset, cleaned duplicates/missing values, encoded categoricals, normalized numerals, applied PCA . 2. Feature Engineering – Analyzed covariance , selected top features, generated polynomial features for non-linear patterns 3. Modeling & Evaluation – Trained regression models with Lasso/Ridge, compared via R^2 & RMSE , visualized actual vs predicted values.			
Result	Best Performance was achieved with Ridge (L2) regularisation , under Linear regression , R^2 : 0.8365 RMSE : 0.4508 & For Polynomial Regression (Degree = 2) also, Ridge (L2) regularisation was best with R^2 : 0.9312 RMSE : 0.2925			
Ensemble Learning for MBA Admission Pred.* Machine Learning Classification (GitHub Link) (Self Project)* Aug 2025				
Objective	To Predict MBA admission status using PCA-reduced features and compare Decision Tree , KNN and SVM models (with ensemble optimizations) based on accuracy and F1-score. overfitting.			
Approach	1. Data Preprocessing – Handled missing values and scaled features. 2. Dimensionality Reduction – Applied PCA to preserve variance with fewer features. 3. Modeling & Optimization – Trained Decision Tree, KNN, SVM; enhanced with Random Forest, Bagging, and Boosting . 4. Evaluation – Compared models using Accuracy and F1 Score as [Decision Tree, KNN, SVM]			
Result	The performance of all trained models will be evaluated using Accuracy [0.87, 0.88, 0.86] & F1 Score [0.82, 0.83, 0.82]			
Simple Chatbot using NLP Machine Learning Classification + Retrieval-based Matching (GitHub Link) (Self Project) July 2025				
Objective	Built a lightweight, Modular Chatbot using a hybrid approach of Logistic Regression and cosine similarity , trained on 3,725 real-world Q&A pairs with TF-IDF processing , and integrated utilities with threshold-based response routing.			
Fine-Tuning DistilBERT for Emotion Classification Machine & Deep Learning Used pre-trained DistilBERT (a Transformer based deep learning model) (GitHub Link) (Self Project) June 2025				
Objective & Result	Built and fine-tuned a pre-trained DistilBERT model for multi-class emotion classification using the HuggingFace emotion dataset, achieving 0.1500 loss and 98.31% confidence , indicating high text classification precision.			
ML pipeline-Case St. on Titanic Disaster Survivors Machine Learning Regression (GitHub Link) (Self Project) June 2025				
Objective & Result	Implemented an end-to-end ML workflow on the Titanic dataset —cleaned data, trained using Logistic Regression (max_iter=500), and saved the model with joblib—achieving 79.89% accuracy as evaluated by a confusion matrix.			
Work Experience				
Project Intern, National Remote Sensing Centre [NRSC], ISRO (Full-Time Internship) Jan. 2023 – June 2023				
-Developed a 4-wheeled interactive robot at ISRO-NRSC with autonomous navigation, QR-based exhibit recognition, and speech interaction to enhance museum visitor experience. -Integrated a voice-enabled chatbot using OpenAI and Wikipedia APIs, plus speech recognition and line-following for guided tours. -Designed the 3D structure in Blender, optimized sensor placement, and deployed the robot live, engaging 500+ visitors monthly.				
Certifications				
Professional Certificate Program in AI & ML (Online Mode), IIT PATNA (In partnership with PW-Skills) Feb. 2025 - July 2025				
Gained AI/ML fundamentals with Python, R, and key libraries, applied in projects like chatbots and predictive modeling, using tools like R Studio, PyCharm, and Google Colab.				
COURSEWORK & SKILLS *in progress				
Relevant Courses	Data Mining and Knowledge Discovery* Probability & Statistics* Operations Research for Management* Introduction to Computing*			
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, NLTK, etc. R MySQL* Prompt Engineering Excel Power Bi*			
Soft Skills	Analytical Ability Decision Making Problem Solving Communication Skills Leadership			
ACHIEVEMENTS & EXTRACURRICULAR				
- Participation Certificate at Algo Messiahs 2019, in Technical Fest Genesis'19 held at BVM, Anand, Gujarat - Certificate for completion of Student Excellence & Learning Program (SELP) 2019, held under BVM, Anand Gujarat - Certificate of Participation in Smart Gujarat for new India Hackathon 2020, held at Charusat University, Gujarat				