

PARTH SARTHI

2K22/SE/123

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EDUCATION

B. TECH (Software Engineering)	2022-2026	Delhi Technological University, New Delhi	8.27 (CGPA)
CBSE (Class XII)	2021	Bal Bharati Public School (GRH Branch), New Delhi	85.6%
CBSE (Class X)	2019	Bal Bharati Public School (GRH Branch), New Delhi	89.4%

ACADEMIC PROJECTS

Customer Behavior Analysis in Online Retail [GitHub Link](#)

- Analyzed 1,067,371 transactions of 2 Years from a UK-based e-commerce business, revealing that 60% of total revenue was driven by the top 10 products out of 2,000+ unique items.
- Built a data processing pipeline using Python, Pandas, NumPy, cleaning and transforming 1M+ data points to uncover Customers behavior and actionable insights.
- Developed interactive visualizations with Seaborn and Matplotlib, implemented K-means clustering on 50,000+ customers, and improved targeting effectiveness by 25% through RFM segmentation and personalized marketing

Indian House Price Prediction System [GitHub Link](#)

- Developed a predictive model using Random Forest, XG-Boost, and AdaBoost, achieving an R^2 score of 94% with 8% improvement in prediction accuracy after Hyperparameter tuning on a dataset of 30,000 entries and 11 features.
- Engineered and optimized the solution by implementing data preprocessing (feature scaling, one-hot encoding, label encoding) and using advanced EDA techniques like heatmaps, correlation matrices, and distribution plots for deeper insights into data patterns.
- Validated model performance using cross-validation with 5 folds, ensuring consistency and reliability, and deployed a robust pipeline that can accurately estimate house prices for a wide range of properties.

Telco Customer Churn Classifier using ANN [GitHub Link](#)

- Designed and trained an ANN model using TensorFlow & Keras to predict customer churn on a dataset of 7,043 entries, achieving 80 - 83% test accuracy while mitigating overfitting using Dropout layers and Batch Normalization.
- Preprocessed 20+ features through imputation, label encoding, and feature scaling; implemented confusion matrix to evaluate performance and validate class balance and prediction quality.
- Visualized key churn drivers using bar plots for contract types, payment methods, and service usage — identified that 45%+ churn occurred among monthly contract customers, aiding strategic retention decisions.

ACADEMIC ACHIEVEMENTS AND AWARDS

- Among the Top 75 coders in Amazon Hackathon out of 40,000+ Participants. [\[Top 75 Coder Certificate\]](#)
- Solved 800+ Problems on LeetCode [\[LeetCode Link\]](#) and 100+ Problems on [HackerBlocks](#).
- Earned 12 LeetCode Badges || 300+ Days Streak on LeetCode.
- LeetCode Rating - 1665 || CodeChef Rating - 1500

SKILLS

- Programming Languages:** C++, Python
- Machine Learning:** Seaborn, Pandas, NumPy, Matplotlib, TensorFlow, Keras, Supervised Learning, Classification/Regression Models, Decision Trees, Random Forest, XG-Boost, Ada-Boost, SVM, Unsupervised Learning – Clustering, Feature Engineering, ANN
- Databases:** MySQL
- Web Development:** HTML5, CSS3, JavaScript
- Version Control:** Git, GitHub
- Tools:** VS Code, StarUML, Canva, Adobe Premiere Pro, Jupyter, Google Collab

POSITION OF RESPONSIBILITY

Corporate Executive at ASSETS (Finance Society)

2023-24

- Secured successful deals/sponsors, including 12 flight tickets and 25% scholarships for NSET Goa, coordinated the delivery of case study materials, 20% course discounts on courses, vouchers for 200+ participants, and 2 judges/speakers related to Management.

Mentor at Desh Ka Mentor (Delhi Govt. Initiative)

2023-24

- Mentored Delhi Government School students, guiding them in their career exploration journey, helping them identify career paths, resulting in improved career planning and direction for 100% of participants. [\[Certificate Link\]](#)

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Secured 1st place with my Team out of 100+ teams in ASSETS case study competition by developing a strategic expansion plan for a renewable energy firm in India, showcasing superior analytical prowess. [\[Certificate Link\]](#)
- Played a key role in Nanua Samagra Sewa Samiti (NGO), Successfully raised global awareness about social responsibilities, engaging with over 1000 individuals across multiple platforms, resulted in a 25% increase in volunteer involvement and a 30% rise in donations. [\[Certificate Link\]](#).