V Abarajithan

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About me

I'm a passionate self-learner aiming to launch my career in the fields of Machine Learning, Data Science, and AI. With a strong foundation in core ML algorithms and an intermediate grasp of Deep Learning techniques, I've built practical projects like spam email detection and loan eligibility prediction to apply my knowledge in real-world scenarios. I bring hands-on experience with Python programming, problem-solving skills, and a constant drive to learn and grow in the evolving AI ecosystem. I'm eager to contribute to entry-level roles where I can apply my skills, collaborate with data-driven teams, and expand my impact in building intelligent systems.

Certificates & Achievements

- Advance Data Science- FITA ACADEMY MADURAI
  April 2025 – June 2025
  Topics covered:ML,STATS,SQL,PYTHON
- Organized one day Ai/Ml workshop in College
- Member of Student Service committee
- Led College Fest Organizing Committee - managed 200+ participants

Skills

Programming Language: Python

Machine Learning: All Ml Models, Model Evaluation, SMOTE ,ensemble methods

Natural Language Processing (NLP): Text preprocessing, Tokenization, Stopword Removal, Lemmatization

Data Analysis & Visualization: Exploratory Data Analysis (EDA), matplotlib, seaborn, YData Profilin

Libraries & Frameworks: scikit-learn, spaCy, pandas, imbalanced-learn

Tools: Jupyter Notebook, Git, GitHub

Projects

Developed a spam/ham email classification system using natural language processing and machine learning techniques github.com/ajan/spam-ham

- The project includes a complete pipeline from data preprocessing and feature extraction to model training and evaluation. It handles class imbalance using SMOTE and visualizes category distributions. The final model predicts whether an email is spam or not based on its content. The project is structured in a Jupyter Notebook and includes detailed exploratory data analysis and performance metrics.
- Tools Used: Python, scikit-learn, spaCy, imbalanced-learn, matplotlib, YData Profiling

loan eligibility Project github.com/ajan/loan

- The project includes data preprocessing, exploratory data analysis, and model training using logistic regression. It also features visualizations to understand feature distributions and correlations. The model helps automate loan approval decisions and is presented in a clean, well-documented Jupyter Notebook.
- Tools Used: Python, pandas, scikit-learn, matplotlib, seaborn, Jupyter Notebook

Laptop Price Prediction
github.com/ajan/Laptop-price

- The project includes a complete pipeline from data preprocessing and feature engineering to model training and evaluation. It applies encoding techniques, dimensionality reduction (PCA), and stacking ensemble learning to improve prediction accuracy.
- It explores multiple regression models including Linear Regression, Decision Tree, Random Forest, XGBoost, and

SVR. A stacking ensemble with Lasso Regression as the meta-learner enhances performance.

- The final model predicts laptop prices based on specifications like processor, RAM, ROM, GPU, and OS. The project is structured in a clean, well-documented Jupyter Notebook with detailed EDA and performance metrics.
- Tools Used: Python, scikit-learn, XGBoost, pandas, matplotlib, seaborn, Jupyter Notebook

Education

The American college , BCA — July 2022 - May 2025

- GPA: 8.1

D.D.Vinayagar Hr Sec School , Bio Maths — June 2020 - March 2022

- PER: 75.5%

The Government School , Sholandur — June 2015 - April 2020

- PER:81.5%