Sharad Menon

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VIT, Vellore

EDUCATION

Vellore Institute of Technology, Vellore   **Jul 2023 onwards**
Bachelor of Engineering, Computer Science Engineering   **CGPA 8.91/9.00**

ACADEMIC PROJECTS

House Price Prediction Using Regression Models
Skills:Data Analysis,Regression
- Built ML model to predict house prices using numerical and categorical features from a Kaggle dataset.
- Applied data cleaning, encoding, feature scaling, and backward elimination for optimal feature selection..
- Trained and evaluated Multiple Linear Regression, Decision Tree, Random Forest models using R^2, MAE, and RMSE.
- Gained hands-on experience in model evaluation and data visualization, while identifying performance limits due to dataset quality.

Customer Segmentation Using K-Means and Hierarchical Clustering
Skills:Data Analysis, Clustering
- Created an unsupervised learning pipeline to segment mall customers based on spending behavior and income.
- Applied K-Means (with elbow method) and Hierarchical Clustering (dendrograms) to find optimal segments.
- Identified 4 distinct customer groups, enabling simulated targeted marketing strategies.

Spam Detection Using NLP and Classification
Skills:Data Analysis, NLP, Classification
- Engineered a text classification model to distinguish spam from legitimate messages using NLP techniques.
- Processed text with tokenization, stopword removal, and CountVectorizer/TF-IDF for feature extraction.
- Attained 96.59% accuracy and a high F1-score, validating the model's robustness on the SMS Spam Collection dataset.

Investment Decision Making System Using Machine Learning and Game Theory
Skills:Data Analysis, NLP, Classification
- Collaborated on building an AI-based framework for market expansion using ML and game theory.
- Handled data preprocessing across three datasets, addressing missing values, outliers, and categorical encoding.
- Coordinated within a role-based team structure and currently co-authoring a research paper under faculty mentorship.

SKILLS AND CERTIFICATION

Programming: Python(Numpy,Pandas,Matplotlib,scikit-learn), HTML, CSS, Javascript, Node js, PostgreSQL
Tools/Softwares: Jupyter Notebook, Spyder, VS Code, MS Office (Excel, PowerPoint, Word), Tableau, Arduino
Certifications: Advanced Python: Working With Data, Web Development

EXTRACURRICULAR ACTIVITIES

AI & ML Club: *Junior Core Member*   **VIT Vellore, April 2025 onwards**
ISTE Chapter: *Junior Core Member*   **VIT Vellore,   May 2025 onwards**
Sports: Participated in *VIT Premier League Football*