SRUTI DARSHINI NETI
Course : **B.E. (Hons.)**, Electrical & Electronics and **M.Sc. (Hons.)**, Biological Science, 2026
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CGPA : 6.32

Subjects / Electives	Generative AI, Machine Learning, Neural Networks and Fuzzy Logics, Foundations of Data Science, Applies Statistical Methods, Probability and Statistics, C Programming, Bio Informatics, Digital Design, Django Framework
Technical Proficiency	C Programming, Data Science, Machine Learning, Generative Artificial Intelligence, Neural Networks, Python, Power BI, C++ Language

SUMMER INTERNSHIP / WORK EXPERIENCE

Data Scientist, Yashoda Hospital,Hydrabad **May 2024 - Jul 2024**

- Disease prediction using Machine Learning models: From the data sets available online, I have developed a web application using the Django framework to predict kidney disease based on user inputs, leveraging machine learning models such as KNN, Decision Tree, Neural Networks, SVM, Fisher Discriminant Analysis, and boosting algorithms like CatBoost, AdaBoost, and XGBoost. The application processes user-provided data and predicts the likelihood of kidneydisease.

PROJECTS

Classification and prediction of cancer cells - Machine Learning **Aug 2023 - Dec 2023**
Developed machine learning models for cancer cell classification and prediction, utilizing various algorithms such as Neural Networks, Naive Bayes, Perceptron, Fisher Discriminant, Logistic Regression, SVM, and KNN. Leveraged large datasets to segregate data into training and testing sets, training models to predict cancer cell types accurately. Additionally, applied Principal Component Analysis (PCA) for data exploration, dimensionality reduction, and visualization, improving model efficiency and interpretability

Image Generation and Recognition - Generative AI **Feb 2024 - May 2024**
Image reconstruction - Generative AI : Developed a model using Variational autoencoders for image recognition and Generative Adversarial Networks (GANs) for image generation. Trained the model on the CelebA dataset to generate realistic human faces. The project involved using Python and machine learning frameworks for model training, evaluation, andimplementation.

Explainable AI in Action: Decoding Generative Models (VAE & GAN) - Machine Learning **Aug 2024 - Nov 2024**
Implemented interpretability techniques for Variational Autoencoders (VAE) and Generative Adversarial Networks (GAN) using dimensionality reduction (PCA, t-SNE, UMAP) and explainability methods (GradCAM, SHAP, LIME, Saliency Maps, LRP). Analyzed neural activation patterns to improve trust and transparency in deep learning models.

Signature Forgery Detection - Machine Learning **Jan 2025 - Present**
Built a clustering-based model for signature verification using the CEDAR dataset, achieving 99–100% accuracy. Analyzed clustering performance on custom datasets, identifying limitations and optimization strategies.

Chart Data Extraction using AI - Machine Learning **Jan 2025 - Present**
Designed a deep learning pipeline for extracting data from chart images using OCR and key-point detection techniques. Conducted a comparative study of LLMs and implemented ChartOCR for improved accuracy.

POSITION OF RESPONSIBILITY

Organizing committee member - Brindavanam **Jul 2022 - Present**

Carrom team player - Carrom team BPHC **Jul 2022 - Present**

VollyBall - Player **Jan 2021 - Present**

VOLUNTEER EXPERIENCE

NSS – Children's Education - Role: Volunteer | Cause: Education **Jan 2023 - Jan 2025**
Assisted in educating underprivileged children, conducting interactive learning sessions, and fostering academic growth through community-driven initiatives.

Godavari Kala Manjari - Role: Volunteer | Cause: Arts and Culture **Feb 2023 - Feb 2025**
Contributed to promoting Telugu culture and heritage through events, workshops, and community engagement activities.

LANGUAGES KNOWN

Telugu, English, Hindi