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🎓 EDUCATION

Bachelor of Technology in Computer Science

DRK Institute of Science and Technology

05/2023 | Hyderabad, India

🧠 SKILLS

Python (Python: Anaconda, Jupyter Notebook, Colab Notebook, syntax. Identifiers & Operators, Array, Numpy, Data Manipulation, Pandas)

Machine Learning (Supervised, Unsupervised, ML. Algorithms, Validation Methods, Naive Bayes, Linear Algchra, K-NN, Hyperparameters, Dimensionality, Decision Tree, Linear regression, Evaluation Metrics, Regression Techniques, Q-Q Plot, MSE & RMSE, Polynomial regression. Regularization Techniques, Logistic Regression, Hierarchical Clusteting.)

Ms-SQL - Power BI (MYSQL, NoSQL, CRUD operation, RDBMS, Data Exploration and Data Filtering, DQL and Operators, Clauses, Joins, ACID, COMMIT, ROLLBACK.)

Gen AI (Large Language Models, OpenAI, DALL-E, GPT-3/GPT-4, Gemini, LLaMA. LangChain)

Power BI (Power BI workflow, Visualisation. Trend Data viz, Power Queries, Power Pivot, DAX, DA Expression, Web & RLS, Visual Interactions, Drill Through,)

Excel

📖 COURSES

Data Science

Innomatics Research Labs

10/2023 – present | Hyderabad, India

📜 CERTIFICATES

- Exploratory Data Analysis from Innomatics Research Labs
- Data Analytics Hackathon on IPL Dataset - Participated in a 5-hour data analytics hackathon focused on IPL datasets at Innomatics Research Labs

👛 PROFESSIONAL EXPERIENCE

Data Science Intern

01/2024 – 03/2024 | Hyderabad, India

Roles and Responsibilities:

- Led initiatives resulting in a **60%** improvement in real-time data processing efficiency, utilizing **Python, Pandas (60%)** and **NumPy (30%)**.
- Created custom **Pandas** functions that improved data aggregation processes, allowing analysts to extract insights from datasets **50%** faster
- Devised innovative visualization dashboards with **Seaborn** and **Matplotlib** that provided actionable insights on user behavior.

📁 PROJECTS

MNIST Digit Classification Project

Tools & Technologies: Python, TensorFlow, Keras, NumPy, Matplotlib, Pandas, Scikit-learn

- Developed a digit classification model using the MNIST dataset with 70,000 images of handwritten digits.
- Designed and implemented a Convolutional Neural Network (CNN) to enhance image feature extraction, leading to **98.3% accuracy** on the test set.
- Tuned hyperparameters such as learning rate, batch size, number of epochs, and CNN depth for optimal accuracy.

Artificial Neural Network (ANN) Playground

Tools & Libraries: Python, TensorFlow, Keras, Streamlit, NumPy, Matplotlib, Pandas, Scikit-learn

- Developed an interactive **ANN Playground** that allows users to explore neural network configurations and see real-time results on various datasets.
- Built an **interactive platform** to experiment with **up to 5 hidden layers** and **50 neurons per layer** using **Keras** for ANN architecture.
- Displayed real-time **decision boundaries, loss curves**, and **accuracy plots** using **Matplotlib** and **Seaborn** for visualization.
- Deployed on a web interface using **Streamlit**, supporting live updates on parameter changes.

IPL Analytics and Prediction Web Application

Tools & Technologies: Python, Streamlit, Scikit-learn, TensorFlow, Pandas, Matplotlib, Seaborn, SQL

- Analyzed **4 datasets** containing over **1,000 IPL matches** to extract insights on team performance, player statistics, and venue trends.
- Built multiple **machine learning models** (Logistic Regression, Random Forest) and a **Neural Network** for predicting match outcomes and **first innings score** based on real-time match data.
- Achieved **85% accuracy** in predicting match outcomes and provided real-time updates through model deployment.

Face Recognition Attendance System

Tools & Technologies: Python, OpenCV, Haar Cascade Classifier, Keras, TensorFlow, NumPy, Pandas, Streamlit

- Implemented **OpenCV** for image preprocessing, including face detection and alignment, with over **1,000 face images** collected for training.
- Presented the project, including detailed explanations of model architecture, performance metrics, and use cases, in a comprehensive **project report**.
- Trained an **Artificial Neural Network (ANN)** using **TensorFlow/Keras** for facial recognition, achieving **95% accuracy** in identifying individuals.