DARLA VISHNU VARDHAN

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SUMMARY

Aspiring AI Engineer with a passion for leveraging machine learning and deep learning to solve complex problems, inspired by innovative technology and stock market analytics. Skilled in Python, PyTorch, SQL, and Power BI, with hands-on experience in predictive modelling and data visualization. Actively learning Transformers architectures to enhance time series forecasting.

EDUCATION

- **Bachelor of Technology in Electronics Communication & Engineering (2019-2023)**
  Pace Institute of Technology and Sciences | CGPA: 7.03
- **BIEAP, Physics, Chemistry & Mathematics (2019)**
  APSWREIS College | CGPA: 9.07
- **Secondary School Certificate (2017)**
  APSWREIS School | GPA: 8.5

PROJECTS

Stock Prediction Model (LSTM- based) | Feb – May 2025

- Developed a stock price prediction model leveraging LSTM neural networks in PyTorch to forecast future stock prices using time series analysis and technical indicators.
- Implemented comprehensive data cleaning and preprocessing, including date formatting, column normalization, and handling missing values.
- Utilized the ta (Technical Analysis) library to compute key indicators such as RSI, MACD, EMA, and momentum to enhance model accuracy. Visualized historical and predicted stock trends using Matplotlib and Seaborn for effective performance analysis and communication.
- Collaborated on the project via Google Colab, demonstrating experience with ML workflows.

Sales Insights for Consumer Electronics Business | Aug - Oct 2024

- Developed a sales insights solution that reduced operational costs by $40,000 within the first six months of deployment.
- Automated sales data retrieval and exploratory data analysis (EDA) using Python, MySQL, Pandas, and NumPy in a Google Colab notebook.
- Created insightful visualizations using Seaborn to answer key business questions regarding top customers, products, and sales/expense trends.

MNIST Digit Recognition Using Deep Neural Networks | Python | PyTorch | Jan- Mar 2025 | link

- Developed a Convolutional Neural Network (CNN) using PyTorch to classify handwritten digits from the MNIST dataset, achieving 98.15% test accuracy.
- Designed and visualized a custom end-to-end deep learning pipeline including data preprocessing, model architecture, training loop, and evaluation.
- Integrated components like ReLU activations, MaxPooling, and Linear layers, and trained using Cross-Entropy Loss and the Adam optimizer.
- Performed predictions on custom external digit images (e.g., PNG format) using OpenCV and PIL, demonstrating model generalization on unseen inputs. Gained hands-on experience with data loaders, model evaluation and image preprocessing using transforms.

SKILLS

- **Programming Languages:** Python, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, Seaborn, Matplotlib
- **ML & DL:** Neural Networks, LSTM, CNN, RNN, Supervised & Unsupervised Learning, Transformers (learning), Feature Engineering, Model Evaluation (R^2, MSE), Optimization
- **Data Analysis & Visualization:** Exploratory Data Analysis (EDA), Data Cleaning & Preprocessing, Technical Indicators (RSI, MACD)
- **Data Technologies:** SQL (MySQL), Power BI (DAX)
- **Tools & Platforms:** Google Colab, VS Code, GitHub, Statistical Analysis: hypothesis testing, regression analysis.

COURSES & CERTIFICATIONS

- Deep Learning Course – Code Basics, SQL and Relational Vatabases - IBM (Cognitive Class)
  Python for Data Science - IBM (Cognitive Class)

Extra- Curricular Achievement

- Secured 1st position in a school chess competition (2016)
- Achieved runner-up in an inter-chess competition with 15+ participants.