ABID A

Data Scientist

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PROFILE

Driven and Aspirational Machine Learning Engineer with advanced expertise in machine learning, deep learning, natural language processing, and language learning management. Committed to leveraging technical expertise and analytical skills to drive impactful real-world ML initiatives.

EXPERIENCE

Associate Data Scientist April 2023 – Present
Matt Engineering Solutions *Nagercoil, Kanyakumari*

- **Developed LLMs and Hybrid Models and Graph Models:** Designed, fine-tuned, and applied **large language models (LLMs)**, hybrid models, transfer learning techniques, and graph-based neural networks **(GNN, GCN, GAT)** for solving academic research problems.
- **Optimization and GANs:**Created and optimized models using various hybrid optimization techniques, generative adversarial networks (GANs), and tools like **TensorBoard** for model visualization and **Optuna** for hyperparameter optimization, applied to academic use cases.
- **End-to-End Project Handling:** Managed the full project lifecycle from data cleaning and preprocessing to model training, testing, and evaluation using Python, TensorFlow, and PyTorch.
- **Tools and Automation:** Leveraged **Power BI** for in-depth analysis and visualization, used **KNIME** for comprehensive visual data analysis, performed web scraping for efficient data collection, and applied model development techniques in **Jupyter Lab and Google Colab**.

Data Scientist Intern JAN 2023 – March 2023
Matt Engineering Solutions *Nagercoil, Kanyakumari*

- **Machine Learning Model Development:** Designed, trained, and **optimized machine learning models** using TensorFlow, PyTorch, and Scikit-learn, applying optimization techniques like PSO and genetic algorithms.
- **Data Analysis and Visualization:** Proficient in analyzing large datasets with **Pandas and NumPy**, and visualizing insights using Plotly for machine learning tasks.

TECHNICAL SKILLS

Languages: **Python**, Libraries: **(Scikit-learn, TensorFlow, PyTroch, Transformers, Seq2Seq models, LLMs, GANs)** Data Visualization: **(Matplotlib, Seaborn, Plotly)**. Tools: **SQL, Git, Google Colab, Jupyter lab**

PROJECTS

Hybrid EfficientNetB2-GRU Model for Brain Tumor Classification

- **Model Architecture:** Built a hybrid CNN-GRU model using EfficientNetB2 for feature extraction and GRU for sequence pattern recognition.
- **Progressive Fine-Tuning:** Fine-tuned the EfficientNetB2 model by gradually unfreezing layers, optimizing performance while minimizing computational cost.
- **Model Evaluation and Visualization:** Evaluated model using accuracy, confusion matrix, and loss plots to track performance and optimize model configuration.

EDUCATION

Hindustan College of Engineering and Technology Coimbatore, Tamil Nadu
Masters in Computer Applications (MCA) *July. 2020 – May 2022*

Jamal Mohamed College Trichy, Tamil Nadu
Bachelors in Computer Applications (BCA) *Au. 2017 – May 2020*