Abhiram Sreekumar

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Career Objective

Aspiring Data Scientist passionate about leveraging statistical models, ML/DL, and Python to solve complex problems. Seeking roles that foster creativity, learning, and real-world impact.

Skills

- **Programming & Data Analysis:** Python (Pandas, NumPy, Seaborn, Matplotlib), SQL (PostgreSQL)
- **Machine Learning & Deep Learning:** Scikit-learn, PyTorch, LangChain, Llama 3.1
- **Tools:** Jupyter, Git, Streamlit, ChromaDB, Conda, VS Code, Power BI, Streamlit

Projects

Cold Email Generator (Gen-AI)

- Developed an AI-powered email generation tool using **Llama 3.1** and **Streamlit**, integrating **LangChain** and **ChromaDB** to dynamically fetch and relate portfolio data for personalized outreach.

Heart Disease Prediction

- Trained and evaluated multiple ML classifiers (e.g., Random Forest, SVM) on clinical datasets to predict heart disease risk and analyzed model performance using **ROC curves**, **feature importance plots**, and achieved **85% recall** to prioritize patient safety.

Spam Email Detection (NLP)

- Processed email datasets using **TF-IDF** and **CountVectorizer**, then trained **Logistic Regression** and **Naive Bayes** models, achieving **92% accuracy** in spam classification.

Handwritten Digit Recognition

- Built a **CNN with PyTorch** on the MNIST dataset, optimized for high accuracy (>98%) and fast inference using GPU acceleration.

Pneumonia Classification (CNN)

- Developed a deep learning model to classify pneumonia from chest X-rays, leveraging **data augmentation** to handle imbalanced datasets, evaluated results using **precision (89%), recall (91%), and F1-score (90%)**, highlighting clinical relevance.

Education

Integrated M.Sc. in Statistics, Pondicherry University (2018–2023)