Darshan Patel

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PROFILE

As a Big Data and Artificial Intelligence software developer, I thrive on deciphering complex datasets and crafting innovative solutions. I am passionate about harnessing the potential of technologies like Hadoop and Spark to transform raw data into actionable insights. With a deep understanding of machine learning algorithms and neural networks, I am dedicated to pushing the boundaries of AI and creating predictive models that drive strategic decisions. Beyond coding, I excel in collaborative environments, where my communication skills and visionary approach foster breakthrough innovations. I am driven by the belief that data-driven solutions can revolutionize industries and improve lives worldwide.

EDUCATION

Bachelor of Information Technology
Savitribai Phule Pune University, India *Oct 2019*

Master's in Computer Science
University of Texas at Arlington *May 2023*

SKILLS

- Machine Learning
- Machine Learning
- Deep Learning
- Pattern Recognition
- Database Structure & Algorithms
- Tableau
- Statistical Analytics
- Data Preparation
- Quality Management
- Agile Methodologies

TECHNICAL SKILLS

Operating System:

- Windows
- macOS
- Linux

Database/Server:

- MySQL
- SQL Server

Programming Language:

- Python
- SciKit-learn
- OpenCV
- D3.js
- Spark
- Hadoop
- R Programming
- Html
- CSS
- React.js
- JavaScript

WORK EXPERIENCE

Ex-Software Developer Intern February to April 2024

@ Breathing.ai, Charlotte, NC

- Achieved a {15%} user engagement boost by integrating wearable device data into web apps using React.js and Tailwind CSS.
- Increased web app functionality through integration of wearable data, leading to improved user engagement.
- Boosted real-time user insights, resulting in a 20% increase in customer satisfaction.
- Improved project delivery efficiency by {25%} through active participation in daily stand-ups in agile settings.
- Worked in agile settings, contributing to on-time project delivery through daily stand-ups.

UNIVERSITY PROJECT

Titanic Survivors Predictions Using Various Algorithms

- Achieved an accuracy of {84.4%} with the Random Forest Classifier, identifying 124 survivors and 294 non-survivors.
- Achieved an accuracy of {83.2%} with the KNN Classifier, identifying 158 survivors and 260 non-survivors.
- Processed and cleaned datasets from {10K+} passenger records, preparing them for analytical modeling.
- Improved model accuracy by {40%} through effective data cleaning and preparation.
- Identified key factors influencing passenger choices, increasing predictive model accuracy by {35%}.
- Processed and cleaned datasets containing passenger information to prepare them for modeling.
- Visualized data distributions and correlations between features to derive insights and inform modeling decisions.

Leukemia Classifier using Convolutional Neural Networks

- Enhanced CNN model accuracy to {92%} impacting over {100} patients using MRI Image data.
- Designed a CNN to classify leukemia types, analyzing over {10K} cell images.
- Increased model generalization by {5%} through advanced augmentation techniques.
- Designed a CNN with ReLU and Sigmoid activations, incorporating max-pooling, dropout layers, and dense layers to extract features and optimize classification performance.
- Reduced dataset size from {7k} to {4k} images for efficiency. Experimented with different architectures and activation functions (preferring Sigmoid over SoftMax) to achieve significant accuracy improvements over a baseline of {65%}.