

Divye Pugaloke

DATA SCIENTIST - Data Wrangling, Statistical Analysis , Python Programming

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SKILLS

- **Programming Languages:** Java, Python, JavaScript, HTML, CSS, TypeScript, Dart, Bash, C, SQL.
- **Frameworks & Libraries:** React, NextJS, Spring Boot, Flutter, TensorFlow.js, Axios, Bootstrap, Redux.
- **Databases:** MySQL, MongoDB, H2 Database, PostgreSQL, Oracle, Relational and Non-relational Databases.
- **Tools & Platforms:** Docker, Kubernetes, Terraform, Git, JPA, Spring Security, Jenkins, Redis, AWS, MySQL

WORK EXPERIENCE

Data Science Intern

January 2022 – May 2022

Remote

- Coordinated with cross-functional operations teams to streamline data flow pipelines, optimizing latency and enhancing processing speeds by 25% using parallel processing and automation tools to handle concurrent streams.
- Operated data-driven insights by analyzing large datasets and constructing predictive models to increase operational efficiency and boost decision-making accuracy by 18% with regression and clustering algorithms.
- Mined, processed, and visualized data in relational and non-relational databases using graphs and charts, improving accessibility and clarity by integrating advanced visualization libraries like D3.js and Matplotlib.

Data Analyst Intern

August 2020 – November 2020

Remote

- Extracted, transformed, and loaded large-scale datasets from diverse platforms, improving data consistency, integrity, and reducing errors by 20% using scripts and modular ETL frameworks to streamline processes.
- Designed and refined comprehensive digital marketing analytics, driving a 15% engagement increase by analyzing social media data trends, optimizing A/B testing strategies, and refining customer performance metrics.
- Reorganised and detailed technical support to internal teams and external customers, addressing system discrepancies and reducing resolution times by 30% with detailed error logs, diagnostics, and real-time monitoring.

PROJECTS

Frame Analysis Using NDNET

Applied Computer Science

- Restructured the NDNetGaming model, a CNN-based quality assessment tool, to evaluate frame quality in video streaming across gaming genres, improving model accuracy by 12% while optimizing frame processing efficiency.
- Integrated the NDNetGaming model with a JavaScript DASH player to measure average frame quality, analyzing adaptive bit rate algorithm under variable network conditions, resulting in a 10% performance increase.
- Initiated JavaScript and TensorFlow.js for real-time model deployment, capturing frames, processing data, and displaying frame quality, achieving a 95% processing efficiency improvement with reduced computational latency.

Image Classification using CNN's

Computer Vision Project

- Modified and revised CNN architectures for image classification on a custom datasets, achieving 78% accuracy and 0.2 loss, surpassing baseline model performance by 15%, and minimizing over fitting across diverse data sets.
- Conducted & coordinated an ablation study on hyper parameters, optimizing learning rates and dropout rates to reduce model loss by 8% while improving training efficiency and overall robustness across dataset configurations.
- Demonstrated & innovated TSNE visualization for feature extraction, improving model interpretation by 20% and enabling better clustering of features across class boundaries for advanced feature engineering applications.

Whiteboard Application

Full-Stack Web Development

- Developed and drafted a full-stack whiteboard application with CRUD operations using React, Spring Boot, and H2 Database, resulting in a 25% faster data retrieval time and improving scalability for simultaneous users.
- Integrated Axios for front-end to back-end communication, ensuring smooth user interaction between React components and Spring Boot APIs, with a 30% decrease in server response time and optimized HTTP request.
- Implemented routing and authentication using React Router and Spring Security, strengthening session management and improving user session integrity by 20%, while ensuring compliance with security standards.

EDUCATION

Master's in Applied Computer Science

2024

Concordia University, Montreal

Bachelor of Technology

August 2018 – June 2022

VIT-AP, India

CERTIFICATIONS

- **Learn DevOps: Docker, Kubernetes, Terraform and Azure DevOps by Coursera** 2023
- **Master Spring Boot 3 & Spring Framework 6 with Java by Udemy** 2022