Dharssini K

Phone: 7695890560| Email: **dharssinikarthikeyan@gmail.com** | LinkedIn: **Dharssini Karthikeyan** | Github: **Dharssini**

Objective

As a decision science student with practical experience in finance and business, I am eager to bring my analytical thinking and self-starter attitude to tackle exciting, real-world challenges. I am also a driven coder, always on the lookout for opportunities to learn and grow my skills to new fields.

Education

Coimbatore Institute of Technology | Coimbatore, Tamil Nadu   *September 2020 – Present*
M.Sc., Decision and Computing Science (Five Years Integrated)   CGPA 9.59(Upto 8th Semester)

Skills

Programming: C++, Python, C, Open Source Contribution **Leetcode**
Data skills: R, Essential python libraries, Power BI, Microsoft Excel(Visualization),SQL, MongoDB
Communication: Public speaker, presentations (large and small audiences), Team worker

Experience

Amazon: *ML Summer School Mentee*   *July 2024 – Present*
- Guided by industrial experts, honed my skills in data analysis and model development through workshops and hands-on projects, enhancing my understanding of machine learning techniques.

Samsung PRISM |Virtual /*Research and Development Intern*   *Aug – Apr 2024*
- Developed Python based GUI tool using Tkinter, enhancing user experience by processing log files to calculate and display time KPIs, resulting in a 50% reduction in manual analysis time.
- Implemented a robust data extraction and reporting system generating detailed Excel reports and improving data processing efficiency by 40%

Buckman | On-Site, Chennai /*Data Science Intern*   *Jun – October 2023*
- Predicting future sales volumes for various products in order to optimize inventory management and reduce costs using 9 different Time-Series Models.
- MAPE improved by 20-30% by implementing CLV analysis, and 10% improvement from Matrix Profiling.
- *Algorithms:* BetaGeofitter, SCRIMP algorithm, SAGE logic for handling intermittent demand patterns.

Tekie | Virtual, Bangalore / *Python Mentor (Intern)*   *May – December 2021*
- Mentored Text-based Coding in the art of storytelling for about 50+ kids over the age of 10

Projects

Virtual Try-On   *Semester 8 2024*
https://github.com/Dharssini/VirtualTryOn
- Virtual try-on framework designed to enhance the online and physical shopping experience by allowing users to visualize how clothes will look on them using only 2D images.
- Followed the architecture of CP-VTON, a two-stage solution involving GMM for cloth warping and TOM for integrating clothes with the model image.
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Smart Poultry Health: MLflow and DVC Powered Chicken Disease Classification   *Semester 6 2023*
https://github.com/Dharssini/chicken-disease-classification
- Built an automated pipeline for data collection, processing and splitting. Developed a CNN model with Transfer Learning and data augmentation to classify chicken diseases from images.
- Used MLflow for experiment tracking and DVC for managing datasets and model versions.
- Deployed the trained model for real time inference with a REST API for scalable deployment.
- *Evaluation Metrics:* Accuracy, Precision, Recall, and F1-score

Customer Segmentation and Profiling   *Semester 5 2021*
https://github.com/Dharssini/Customer_segmentation
- Customer Personality Analysis helps a business to better understand its customers and to modify its product based on its target customer. Using clustering 4 clusters were formed based on their personal features, income and spending habits.
- *Tools/Techniques:* EDA, PCA, KMeans, Agglomerative Clustering, Affinity Propagation and DBSCAN

Volunteer Experiences and Certifications

GeeksforGeeks: *Campus Mandri and Treasurer at GFGCIT*   *May 2020 – May 2021*
- Organized GeeksforGeeks workshops and promoted GeeksforGeeks events on campus, served as key communicator between GFG organization and the club.

Deepvision.AI course on AI for assistive technology   *August 2022 – September 2022*
- The course gave a deep insight into the basics of Deep Learning and I worked on the project of 'Sign Language Detection' with primarily sourced data, streamed it on StreamLit, and deployed the model on the Heroku platform.

DevTown: Industrial Training and Internship Program   *September 2021 – February 2022*
- Worked on several industrial level projects with various web development tech stack: NodeJs, React, Bootstrap, Chakra UI, Mongo DB.

1st milestone on Google Cloud Facilitator program (8 quest and 4 skill badges)   *May 2021 – June 2021*