ARYAN PHILIP

MS DATA SCIENCE

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SUMMARY

Graduate student UC San Diego, with experience in Computer vision and Retrieval Augmented Generation. Enthusiastic to work in the domain of data science and NLP.

EDUCATION

University of California San Diego Sept. 2023 - Current
MS Data Science 2025
Relevant Coursework: Data Management, Data Ethics, Linear Algebra, Probability and Statistics, NLP and Machine Learning

Manipal Institute of Technology July 2018 - Apr. 2023
B.Tech Mechatronics 2023
CGPA: 3.87/4
Minor : Robotics and Automation.

EMPLOYMENT

HCL Technolgies, *NLP Data Scientist*, Bengaluru, India Feb. 2023 - Aug. 2023

- Built a **Retrieval Augmented Chatbot** to fetch and answer questions regarding medical compliance data.
- Employed **FLARE and Chain-of-Thought** to **improve accuracy by 10% and reduce memory consumption by 200%.**
- Used **vector databases** like Pinecone and Weaviate to **improve security and reduce latency**.
- Reduced total project **cost by 25%.**

Omantel, *Business Intelligence Intern*, Muscat, Oman Aug. 2022 - Nov. 2022

- Worked on implementing workflows for Data Sourcing (Structured Telecom Data) from Data Repositories.
- Used ETL using Hadoop for Data Staging and RT Data stream processing.
- Implemented Database structuring techniques like **EDW and DB2 in Data Warehousing**.
- Implemented an end-to-end pipeline using **IBM Cognos** to extract relevant data from telecom subscribers.

SKILLS

PROGRAMMING: Languages: Python, C++, C, SQL, Hadoop and Spark.,
Softwares: Pytorch, TensorFlow, OpenCV, Keras, Fast AI, Scikit-Learn, Pandas, ROS, AWS, GCP.,
Miscellaneous: MS Office, Scada, Catia, RobotStudio.
SOFT SKILLS: Public Speaking, Communication, Adaptive, Quick-Learner.

PROJECTS

Single Image Lens Flare Removal using DL Techniques May 2022 - Aug. 2023

- Benchmarked pre-existing Deep Learning Techniques like **Pix2Pix, VQGAN, and CycleGAN** to **remove flares**.
- Adopted **existing algorithms** with slight modifications like **loss functions, optimizers, and image quality metrics**.
- Compiled a **new and unique synthetic dataset** with a wide variety of flares.
- Planning to publish a paper in a Tier-1 journal.

Indoor Scene Classification using Deep Learning Techniques Sept. 2021 - Dec. 2021

- Optimized a Deep Learning model using a **ResNet backbone** without pre-trained **IMAGENET weights**.
- Used **few shot-learning techniques** to improve classification accuracy.
- Compared the model with existing SOTA DL and ML models.